

1. I. $a^2 \heartsuit b^3 = a + b^2$

II. $a \bullet b = a^2 - b^2$

III. $(16 \heartsuit 64) + (5 \bullet 4) = ?$

- A) 10 B) 15 C) 20 D) 25 E) 29

6. I. $\hat{a} \star b = \frac{a \cdot b}{2}$

II. $a \bullet b = ab - 1$

III. $(4 \star 5) \bullet (3 \star 2) = ?$

- A) 30 B) 29 C) 28 D) 27 E) 26

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2. I. $a \blacksquare b = (a \bullet b) - 2$

II. $a \bullet b = (a \blacktriangle b) + 3$

III. $a \blacktriangle b = \frac{a \cdot b}{2}$

IV. $5 \blacksquare 4 = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

7. I. $4a \bullet b = a \cdot b - 2$

II. $5a \blacktriangle b^2 = a \cdot b$

III. $(20 \bullet 3) - (20 \blacktriangle 9) = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

8. I. $a \blacktriangle b = (a \bullet b) - 3a$

II. $a \bullet b = (a \star b) + 15$

III. $a \star b = a^2 - b$

IV. $(5 \blacktriangle 4) = ?$

- A) 20 B) 21 C) 22 D) 23 E) 24

3. I. $a \bullet b = a + 3b$

II. $a \blacktriangle b = b + 6a$

III. $(5 \blacktriangle 2) \bullet (2 \blacktriangle 3) = ?$

- A) 50 B) 62 C) 77 D) 80 E) 91

4. I. $5a \bullet 3b = 2a - b$

II. $a^2 \blacktriangle b^2 = a - b$

III. $(75 \bullet 9) + (25 \blacktriangle 4) = ?$

- A) 30 B) 32 C) 33 D) 34 E) 35

9. I. $a^2 \blacktriangle b^3 = ab$

II. $a \bullet b = 2ab$

III. $(9 \blacktriangle 125) - (3 \bullet 1) = ?$

- A) 7 B) 9 C) 11 D) 13 E) 15

5. I. $a \blacktriangle b = 3a - b$

II. $a \bullet b = a^2 + b$

III. $(2 \bullet 3) \blacktriangle (4 \blacktriangle 1) = ?$

- A) 10 B) 18 C) 24 D) 28 E) 36

10. I. $a \blacktriangle b = \frac{a-b}{3}$

II. $a \bullet b = a^2 + b^2$

III. $(27 \blacktriangle 9) \bullet (12 \blacktriangle 3) = ?$

- A) 40 B) 45 C) 50 D) 55 E) 60

11. I. $a^2 \heartsuit b^4 = 2a - 3b$
 II. $a^3 \bullet b^5 = 4a + 2b$
 III. $(25 \heartsuit 16) + (125 \bullet 32) = ?$
 A) 25 B) 27 C) 28 D) 29 E) 30

12. I. $\frac{1}{a} \blacktriangle \frac{1}{b} = a^2 \cdot b$
 II. $a \bullet b = \frac{1}{a} \cdot b^2$
 III. $(2 \blacktriangle 4) \blacktriangle (3 \bullet 6) = ?$
 A) 16 B) $\frac{64}{3}$ C) $\frac{72}{3}$ D) 32 E) 64

13. I. $a^3 \blacktriangle b^2 = 3a - b$
 II. $a^2 \blacksquare b^3 = a + 2b$
 III. $(27 \blacktriangle 9) + (36 \blacksquare 64) = ?$
 A) 20 B) 19 C) 21 D) 24 E) 22

14. I. $a^3 \blacktriangle b = 2a^2 + b$
 II. $a^4 \blacksquare b = 3a - b$
 III. $5a \bigcirc 4b = a + b$
 III. $(64 \blacktriangle 8) - (16 \blacksquare 2) + (25 \bigcirc 4) = ?$
 A) 36 B) 38 C) 40 D) 42 E) 44

15. I. $3a \blacksquare 4b = a + 2b$
 II. $4a \blacktriangle 2b = 2a + 3b$
 III. $8a \bigcirc 4b = 3a^2 + 2b$
 III. $(12 \blacksquare 12) - (4 \blacktriangle 18) + (16 \bigcirc 64) = ?$
 A) 22 B) 23 C) 24 D) 25 E) 26

16. I. $3a^2 \blacksquare 4b = 2a - b$
 II. $4a \blacktriangle 3b^3 = a + b$
 III. $5a \bigcirc 3b = 2a^2 + b^2$
 III. $(27 \blacksquare 24) - (16 \blacktriangle 81) + (35 \bigcirc 6) = ?$
 A) 95 B) 105 C) 125 D) 130 E) 145

17. I. $3a^2 \bigcirc 8b = 2a - 3b$
 II. $4a \triangle 3b = 2a + 4b$
 III. $2a^2 \blacksquare 3b = \frac{2 \cdot a}{b}$
 III. $(75 \bigcirc 8) + (16 \triangle 27) - (18 \blacksquare 6) = ?$
 A) 47 B) 48 C) 49 D) 50 E) 51

18. I. $a \bigcirc b = a^3 - b$
 II. $a \triangle b = \frac{a^2}{2} + b$
 III. $a \blacksquare b = \frac{a^3}{b^2}$
 III. $(2 \bigcirc 4) + (4 \triangle 8) - (2 \blacksquare 1) = ?$
 A) 11 B) 12 C) 13 D) 14 E) 15

19. I. $a \blacktriangle b = a^2 + b^2$
 II. $a^3 \blacksquare 4b = \frac{a}{b}$
 III. $(1000 \blacksquare 20) \blacktriangle (125 \blacksquare 20) = ?$
 A) 1 B) 2 C) 3 D) 4 E) 5

Yanıtlar / Answers

1. E	4. A	7. B	10. B	13. A	16. A	19. E
2. B	5. A	8. B	11. C	14. D	17. B	
3. C	6. B	9. B	12. B	15. D	18. B	

1. I. $a \blacktriangle b = (a \bullet b) \cdot 2$
 II. $a \bullet b = (a * b) + 4$
 III. $a * b = 2a + b$
 IV. $5 \blacktriangle 2 = ?$
 A) 30 B) 32 C) 34 D) 36 E) 38

2. I. $a \Delta b = (a \bullet b) + 1$
 II. $a \bullet b = (a * b) - 3$
 III. $a * b = a \cdot b$
 IV. $4 \Delta 7 = ?$
 A) 20 B) 22 C) 24 D) 26 E) 25

3. I. $x * y = (x \bullet y) - 5$
 II. $x \bullet y = (x \Delta y) \cdot 3$
 III. $x \Delta y = x - y$
 IV. $12 * 4 = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

4. I. $x^2 \div y = \frac{(x \bullet y)}{2}$
 II. $x \bullet y = (x \blacktriangle y) + 4$
 III. $x \blacktriangle y = 3x + y$
 IV. $25 \div 15 = ?$
 A) 9 B) 11 C) 13 D) 15 E) 17

5. I. $x \triangle y = (x \bullet y) + 5$
 II. $x \bullet y = (x * y) \cdot 3$
 III. $x * y = x + y$
 IV. $(9 \triangle 4) = ?$
 A) 36 B) 38 C) 40 D) 42 E) 44

6. I. $x \triangle y = (x \bullet y) \cdot 4$
 II. $x \bullet y = (x * y) + 4$
 III. $x * y = x^2 - y$
 IV. $2 \triangle 3 = ?$
 A) 10 B) 15 C) 20 D) 25 E) 30

7. I. $a \div b = (a \Delta b) - 3$
 II. $a \Delta b = (a \bullet b) \cdot 2$
 III. $a \bullet b = 3a - b$
 IV. $(9 \Delta 4) - (4 \div 2) = ?$
 A) 21 B) 23 C) 25 D) 27 E) 29

8. I. $x * y = 3 \cdot (x \triangle y)$
 II. $x \triangle y = 5 \cdot (x \Delta y)$
 III. $x \Delta y = (x + y)$
 IV. $5 * 7 = ?$
 A) 140 B) 150 C) 160 D) 170 E) 180

9. I. $x * y = 2(x @ y)$
 II. $x @ y = (x \blacksquare y) + 5$
 III. $x \blacksquare y = 2x + y$
 IV. $7 * 3 = ?$
 A) 40 B) 41 C) 42 D) 43 E) 44

10. I. $a \oplus b = 4(a \Delta b)$
 II. $a \Delta b = 5(a - b)$
 III. $(10 \oplus 7) = ?$
 A) 10 B) 30 C) 40 D) 60 E) 70

11. I. $a \Delta b = (a \oplus b) - 10$
 II. $a \oplus b = 3(a \bullet b)$
 III. $a \bullet b = \frac{a}{b}$
 IV. $24 \Delta 2 = ?$
 A) 20 B) 22 C) 24 D) 26 E) 28

12. I. $x \Delta y = (x \star y) + 5$
 II. $x \star y = (x \square y) + 12$
 III. $x \square y = x + y^2$
 IV. $3 \Delta 4 = ?$
 A) 36 B) 38 C) 39 D) 42 E) 43

13. I. $x \blacktriangle y = (x \bullet y) + x$
 II. $x \bullet y = y(x \Delta y)$
 III. $x \Delta y = 2(x + y)$
 IV. $5 \blacktriangle 2 = ?$
 A) 30 B) 31 C) 32 D) 33 E) 34

14. I. $x \clubsuit y = 4(x \blacktriangledown y)$
 II. $x \blacktriangledown y = (x \star y) + 12$
 III. $x \star y = x + y - 5$
 IV. $4 \clubsuit 5 = ?$
 A) 16 B) 25 C) 36 D) 49 E) 64

15. I. $a \rightrightarrows b = (a * b) + b$
 II. $a * b = (a \bullet b) + a$
 III. $a \bullet b = a \cdot b$
 IV. $4 \rightrightarrows 9 = ?$
 A) 41 B) 43 C) 45 D) 47 E) 49

16. I. $x \spadesuit y = (x \blacksquare y) + 10$
 II. $x \blacksquare y = x(x \Delta y)$
 III. $x \Delta y = 2x - y$
 IV. $(5 \spadesuit 4) = ?$
 A) 40 B) 60 C) 90 D) 100 E) 120

17. I. $a \triangle b = (a * b) + 7$
 II. $a * b = 2(a \circ b)$
 III. $a \circ b = a - b$
 IV. $(18 \triangle 7) = ?$
 A) 29 B) 30 C) 31 D) 32 E) 33

18. I. $12a * b^3 = a \cdot b + 5$
 II. $a^3 \circ b = a + b^2 - 1$
 III. $(36 * 64) + (125 \circ 4) = ?$
 A) 31 B) 33 C) 35 D) 37 E) 39

Yanıtlar / Answers

1. B	4. E	7. E	10. D	13. D	16. A
2. D	5. E	8. E	11. D	14. E	17. A
3. E	6. C	9. E	12. A	15. E	18. D

1. I. $x * y = 2 (x \bullet y)$
 II. $x \bullet y = 5 (x + y)$
 III. $7 * 3 = ?$
 A) 10 B) 50 C) 100 D) 150 E) 200

2. I. $a * b = (a \bullet b) - 4$
 II. $a \bullet b = 2a - b$
 III. $7 * 4 = ?$
 A) 2 B) 6 C) 10 D) 12 E) 14

3. I. $x \heartsuit y = (x * y) + 3$
 II. $x * y = (x \Rightarrow y) + x^2$
 III. $x \Rightarrow y = x + y$
 IV. $3 \heartsuit 2 = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

4. I. $a * b = (a \bullet b) + ab$
 II. $a \bullet b = (a \Delta b) + 1$
 III. $a \Delta b = a - b$
 IV. $10 * 9 = ?$
 A) 90 B) 91 C) 92 D) 93 E) 94

5. I. $a \triangle b = 2 (a \bullet b)$
 II. $a \bullet b = (a * b) \cdot 3$
 III. $a * b = \frac{a \cdot b}{2} + 4$
 IV. $12 \triangle 4 = ?$
 A) 160 B) 162 C) 164 D) 166 E) 168

6. I. $a \star b = \frac{(a * b) - 8}{2}$
 II. $a * b = 4 (a \bullet b)$
 III. $a \bullet b = a^2 - b$
 IV. $5 \star 4 = ?$
 A) 30 B) 32 C) 34 D) 36 E) 38

7. I. $x \star y = (x \bullet y) \cdot y$
 II. $x \bullet y = (x \ddagger y) + x^2 - 1$
 III. $x \ddagger y = x + y^2$
 IV. $4 \star 2 = ?$
 A) 22 B) 28 C) 34 D) 40 E) 46

8. I. $a * b = (a \bullet b) + 10$
 II. $a \bullet b = 10 (a - b)$
 III. $15 * 8 = ?$
 A) 80 B) 90 C) 100 D) 110 E) 120

9. I. $x \blacktriangle y = (x \bullet y) + 5x$
 II. $x \bullet y = (x * y) + 3y$
 III. $x * y = 2x + y$
 IV. $4 \blacktriangle 5 = ?$
 A) 40 B) 42 C) 44 D) 46 E) 48

10. I. $a \heartsuit b = (a \bullet b) + 3$
 II. $a \bullet b = (a \blacksquare b) \cdot 4$
 III. $a \blacksquare b = a + 3b$
 IV. $7 \heartsuit 3 = ?$
 A) 59 B) 61 C) 63 D) 65 E) 67

11. I. $x \triangle y = (x \circ y) - xy$

II. $x \circ y = x^2 + y^2$

III. $8 \triangle 7 = ?$

- A) 51 B) 53 C) 55 D) 57 E) 59

12. I. $a \triangle b = (a \circ b) + a^2$

II. $a \circ b = (a \bullet b) - 2b$

III. $a \bullet b = a \cdot b$

IV. $5 \triangle 4 = ?$

- A) 29 B) 31 C) 33 D) 35 E) 37

13. I. $x \blacktriangle y = (x \blacktriangleright y) + 17$

II. $x \blacktriangleright y = (x * y) + xy$

III. $x * y = 3x - y$

IV. $8 \blacktriangle 3 = ?$

- A) 62 B) 63 C) 64 D) 65 E) 66

14. I. $a * b = (a \rightarrow b) + 12$

II. $a \rightarrow b = (a \rightarrow b) - 3b$

III. $a \rightarrow b = 4a + 2b$

IV. $10 * 12 = ?$

- A) 10 B) 20 C) 30 D) 40 E) 50

15. I. $x^2 \bullet y = (x \square y) + xy$

II. $x \square y = (x * y) + 15$

III. $x * y = 3(x + y)$

IV. $25 \bullet 12 = ?$

- A) 126 B) 128 C) 130 D) 132 E) 134

16. I. $x * y^3 = (x \star y) + y^2$

II. $x \star y = x^2 + y - 1$

III. $(7 * 64) = ?$

- A) 64 B) 65 C) 66 D) 67 E) 68

17. I. $a * b = (a \bullet b) - 13$

II. $a \bullet b = (a \blacktriangle b) + ab$

III. $a \blacktriangle b = a^2 + b$

IV. $8 * 19 = ?$

- A) 111 B) 222 C) 333 D) 444 E) 555

18. I. $x \Leftarrow y = (x * y) \cdot 3$

II. $x * y = (x \circ y) + 15$

III. $x \circ y = x^3 + 2y$

IV. $2 \Leftarrow 18 = ?$

- A) 29 B) 84 C) 122 D) 143 E) 177

19. I. $a * b = 10(a \circ b)$

II. $a \circ b = (a \square b) + (a + b)$

III. $a \square b = 10a - 2b$

IV. $10 * 20 = ?$

- A) 900 B) 800 C) 700 D) 600 E) 500

20. I. $a \blacktriangle b = a \bullet (b + 1)$

II. $a \bullet b = (a - 1) \triangle b$

III. $a \triangle b = a + b + 2$

IV. $(4 \blacktriangle 3) = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

Yanıtlar / Answers

1. C	4. C	7. E	10. E	13. A	16. E	19. A
2. B	5. E	8. A	11. D	14. D	17. B	20. C
3. D	6. E	9. E	12. E	15. A	18. E	

1. I. $a * b = (a \bullet b) + 7$
 II. $a \bullet b = a \cdot b$
 III. $5 * 2 = ?$
 A) 11 B) 12 C) 13 D) 15 E) 17

2. I. $x \heartsuit y = (x \bullet y) \cdot 2$
 II. $x \bullet y = (x \Delta y) + 5$
 III. $x \Delta y = x - y + 1$
 IV. $5 \heartsuit 4 = ?$
 A) 10 B) 11 C) 12 D) 13 E) 14

3. I. $5x \blacksquare y = x + 3y$
 II. $4a \Delta b = a + b^2$
 III. $(15 \blacksquare 7) + (16 \Delta 9) = ?$
 A) 101 B) 103 C) 104 D) 108 E) 109

4. I. $a \ddagger b = \frac{(a \bullet b)}{7}$
 II. $a \bullet b = (a \Delta b)$
 III. $a \Delta b = a + b$
 IV. $(15 \ddagger 13) = ?$
 A) 1 B) 2 C) 4 D) 5 E) 6

5. I. $12x \blacksquare y^2 = x \cdot y$
 II. $108 \blacksquare 125 = ?$
 A) 15 B) 25 C) 35 D) 45 E) 55

6. I. $a * b = (a \bullet b) + 6$
 II. $a \bullet b = 4 \cdot (a \Delta b)$
 III. $a \Delta b = a^2 - b$
 IV. $(3 * 5) = ?$
 A) 20 B) 21 C) 22 D) 23 E) 24

7. I. $14x \star 13y = x + y^2$
 II. $5x \bullet y^2 = (x + y) \cdot 2$
 III. $(56 \star 39) + (10 \bullet 81) = ?$
 A) 10 B) 15 C) 25 D) 30 E) 35

8. I. $7a \blacktriangle 4b = 3(a + b)$
 II. $a^3 \bullet 2b = a^2 - b$
 III. $(35 \blacktriangle 16) - (64 \bullet 12) = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

9. I. $a * b = (a \bullet b) + 9$
 II. $a \bullet b = \frac{a \Delta b}{3}$
 III. $a \Delta b = a^2 + b$
 IV. $5 * 2 = ?$
 A) 18 B) 20 C) 22 D) 24 E) 26

10. I. $x^5 \circledast 2y = \frac{x \cdot y}{2}$
 II. $243 \circledast 20 = ?$
 A) 10 B) 15 C) 20 D) 25 E) 30

11. I. $8a * 3b = a^2 + 4b$
 II. $a^3 \bullet b^2 = a \cdot b$
 III. $(24 * 27) - (125 \bullet 36) = ?$
 A) 11 B) 12 C) 13 D) 14 E) 15

12. I. $a * b = 5 \cdot (a \bullet b)$
 II. $a \bullet b = (a \Delta b) - 1$
 III. $a \Delta b = 2 \cdot (a + b)$
 IV. $7 * 3 = ?$
 A) 105 B) 100 C) 95 D) 90 E) 85

13. I. $5a * 7b = a^2 - b$
 II. $3a^2 \bullet b = a + b^2 - 1$
 III. $(30 * 49) - (48 \bullet 4) = ?$
 A) 10 B) 11 C) 12 D) 13 E) 14

14. I. $a \square b = a^2 + b + 3a$
 II. $a \bullet b = a + b^2 + ab - 1$
 III. $(5 \square 17) - (5 \bullet 4) = ?$
 A) 17 B) 16 C) 15 D) 14 E) 13

15. I. $a \star b = (a \Delta b) + a$
 II. $a \Delta b = 2 \cdot (a - b)$
 III. $16 \star 9 = ?$
 A) 30 B) 36 C) 48 D) 54 E) 66

16. I. $a * b = 3 \cdot (a - b)$
 II. $a \bullet b = \frac{a \cdot b}{4}$
 III. $a \Delta b = a + b^2$
 IV. $(16 \bullet 8) \Delta (7 * 4) = ?$
 A) 110 B) 111 C) 112 D) 113 E) 114

17. I. $a \Delta b = (a \bullet b) - 1$
 II. $a \bullet b = a^3 - b$
 III. $4 \Delta 28 = ?$
 A) 35 B) 36 C) 37 D) 38 E) 39

18. I. $7a \star b^2 = a^2 - 3b$
 II. $4a \bullet b = a + b^2 + 1$
 III. $(16 \bullet 5) + (21 \star 1) = ?$
 A) 28 B) 30 C) 32 D) 34 E) 36

19. I. $15 \Delta 2 = 14 \nabla 16$
 II. $7 \Delta 3 = 19 \nabla 2$
 III. $5 \Delta 7 = 28 \nabla x$
 IV. $x = ?$
 A) 7 B) 9 C) 11 D) 13 E) 15

20. I. $a * b = ab + b^2$
 II. $a \Delta b = 3 \cdot (a + b)$
 III. $[(7 * 4) \Delta 12] = ?$
 A) 160 B) 162 C) 164 D) 166 E) 168

Yanıtlar / Answers

1. E	4. C	7. E	10. B	13. A	16. D	19. A
2. E	5. D	8. D	11. E	14. A	17. A	20. E
3. E	6. C	9. A	12. C	15. A	18. E	

1. I. $a \star b = (a \blacktriangle b) + 5$

II. $a \blacktriangle b = 2a - b$

III. $3 \star 4 = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

2. I. $x \blacktriangle y = (x \odot y) \cdot 4$

II. $x \odot y = x - y$

III. $14 \blacktriangle 9 = ?$

- A) 19 B) 20 C) 21 D) 22 E) 23

3. I. $a \odot b = (a \blacktriangle b) - 3$

II. $a \blacktriangle b = a^2 + b$

III. $5 \odot 7 = ?$

- A) 29 B) 30 C) 31 D) 32 E) 33

4. I. $a \odot b = (a \triangle b) \cdot a$

II. $a \triangle b = a + b^2$

III. $7 \odot 2 = ?$

- A) 71 B) 73 C) 75 D) 77 E) 79

5. I. $a \blacksquare b = (a \odot b) - ab$

II. $a \odot b = a^2 + b^2$

III. $4 \blacksquare 6 = ?$

- A) 20 B) 22 C) 24 D) 26 E) 28

6. I. $a \blacksquare b = \frac{(a \odot b)}{2}$

II. $a \odot b = a \cdot b - 1$

III. $5 \blacksquare 3 = ?$

- A) 1 B) 3 C) 5 D) 7 E) 9

7. I. $a \star b = (a \odot b) + a$

II. $a \odot b = (a \triangle b) - b$

III. $a \triangle b = a \cdot b$

IV. $7 \star 5 = ?$

- A) 33 B) 34 C) 35 D) 36 E) 37

8. I. $a \odot b = (a \triangle b) + 4$

II. $a \triangle b = 2(a \star b)$

III. $a \star b = a + b$

IV. $(11 \odot 9) = ?$

- A) 44 B) 46 C) 48 D) 50 E) 52

9. I. $a \star b = (a \blacktriangle b) + ab$

II. $a \blacktriangle b = (a \odot b) - 12$

III. $a \odot b = 3a - b$

IV. $15 \star 3 = ?$

- A) 55 B) 60 C) 65 D) 70 E) 75

10. I. $a \square b = (a \star b) + 2a$

II. $a \star b = (a \triangle b) - 7b$

III. $a \triangle b = a \cdot b + 1$

IV. $5 \square 2 = ?$

- A) 7 B) 6 C) 5 D) 4 E) 3

11. I. $a \bullet b = (a \blacktriangle b) + 21$
 II. $a \blacktriangle b = (a * b) - 3b$
 III. $a * b = 2(a + b)$
 IV. $11 \bullet 7 = ?$
 A) 9 B) 16 C) 25 D) 36 E) 64

12. I. $a \triangle b = (a * b) \cdot 3$
 II. $a * b = (a \bullet b) + 7$
 III. $a \bullet b = a - b$
 IV. $(11 \triangle 2) = ?$
 A) 44 B) 46 C) 48 D) 50 E) 52

13. I. $a * b = (a \triangle b) + b$
 II. $a \triangle b = (a \bullet b) + 4$
 III. $a \bullet b = a + b^2$
 IV. $7 * 4 = ?$
 A) 31 B) 32 C) 33 D) 34 E) 35

14. I. $a * b = (a \bullet b) + b^2$
 II. $a \bullet b = a^2 - b$
 III. $9 * 11 = ?$
 A) 187 B) 188 C) 189 D) 190 E) 191

15. I. $a \triangle b = (a \bullet b) + 7a$
 II. $a \bullet b = (a * b) \cdot 2$
 III. $a * b = a - b$
 IV. $7 \triangle 5 = ?$
 A) 50 B) 51 C) 52 D) 53 E) 54

16. I. $a * b = (a \triangle b) + a^2$
 II. $a \triangle b = (a \bullet b) - ab$
 III. $a \bullet b = a^2 + b^2$
 IV. $7 * 5 = ?$
 A) 77 B) 88 C) 99 D) 101 E) 111

17. I. $a * b = a(a \triangle b) - 1$
 II. $a \triangle b = (a + b) \cdot 2$
 III. $7 * 9 = ?$
 A) 224 B) 223 C) 222 D) 221 E) 220

18. I. $a \square b = \frac{(a \circ b)}{5}$
 II. $a \circ b = (a \bullet b) - 5$
 III. $a \bullet b = a \cdot b$
 III. $15 \square 7 = ?$
 A) 10 B) 15 C) 17 D) 19 E) 20

19. I. $a \bullet b = (a \triangle b) + 4$
 II. $a \triangle b = (a * b) - 9$
 III. $a * b = a^3 - b$
 IV. $4 \bullet 15 = ?$
 A) 38 B) 44 C) 53 D) 69 E) 72

20. I. $a \triangle b = (a * b) - 15$
 II. $a * b = (a \bullet b) \cdot 2$
 III. $a \bullet b = 7a - 3b$
 IV. $7 \triangle 12 = ?$
 A) 11 B) 10 C) 9 D) 8 E) 7

21. I. $a * b = (a \bullet b) + 7$
 II. $a \bullet b = 5(a \triangle b)$
 III. $a \triangle b = 4a - b$
 IV. $7 * 12 = ?$
 A) 83 B) 84 C) 85 D) 86 E) 87

Yanıtlar / Answers

1. C	4. D	7. E	10. A	13. A	16. B	19. B
2. B	5. E	8. A	11. D	14. E	17. B	20. A
3. A	6. D	9. E	12. C	15. D	18. E	21. E

1. I. $a \star b = (a \blacktriangle b) - 3a$
 II. $a \blacktriangle b = (a + b) 4$
 III. $5 \star 15 = ?$
 A) 50 B) 55 C) 60 D) 65 E) 70
2. I. $a \ast b = (a \bullet b) 2$
 II. $a \bullet b = (a - b) 3$
 III. $12 \ast 7 = ?$
 A) 10 B) 20 C) 25 D) 30 E) 35
3. I. $a \blacktriangle b = (a \bullet b) + b$
 II. $a \bullet b = a \cdot b$
 III. $7 \blacktriangle 9 = ?$
 A) 64 B) 66 C) 68 D) 70 E) 72
4. I. $a \circ b = (a \square b) + 9$
 II. $a \square b = a^2 + b - 1$
 III. $5 \circ 10 = ?$
 A) 40 B) 41 C) 42 D) 43 E) 44
5. I. $a \triangle b = (a \div b) + 3a$
 II. $a \div b = b^2 - a$
 III. $12 \triangle 9 = ?$
 A) 105 B) 110 C) 115 D) 120 E) 125
6. I. $x \triangle y = (x \square y) + y$
 II. $x \square y = 2x + y^2$
 III. $5 \triangle 7 = ?$
 A) 60 B) 62 C) 64 D) 66 E) 68
7. I. $a \diamond b = (a \heartsuit b) - 7$
 II. $a \heartsuit b = 12a - 5b$
 III. $4 \diamond 5 = ?$
 A) 10 B) 12 C) 14 D) 16 E) 18
8. I. $a \square b = (a \ast b) + 4a$
 II. $a \ast b = (a \bullet b) - 12$
 III. $a \bullet b = a \cdot b + 7$
 IV. $7 \square 4 = ?$
 A) 59 B) 57 C) 55 D) 53 E) 51
9. I. $a \ast b = (a \triangle b) + 10b$
 II. $a \triangle b = (a \bullet b) \cdot 2$
 III. $a \bullet b = (a + b) 3$
 IV. $7 \ast 4 = ?$
 A) 98 B) 100 C) 102 D) 104 E) 106
10. I. $a \heartsuit b = (a \bullet b) \cdot 3$
 II. $a \bullet b = (a \ast b) - 4b$
 III. $a \ast b = (3a + 2b)$
 IV. $10 \heartsuit 8 = ?$
 A) 40 B) 42 C) 44 D) 46 E) 48

11. I. $a \bullet b = (a \Delta b) - 4$
 II. $a \Delta b = (a * b) b$
 III. $a * b = a - b$
 IV. $9 \bullet 4 = ?$
 A) 16 B) 17 C) 18 D) 19 E) 20

12. I. $a \blacktriangle b = (a \bullet b) + b^3$
 II. $a \bullet b = (a * b) - 2$
 III. $a * b = a^2 - b$
 IV. $7 \blacktriangle 2 = ?$
 A) 49 B) 50 C) 51 D) 52 E) 53

13. I. $a \square b = (a \blacktriangle b) 3$
 II. $a \blacktriangle b = \frac{a \circ b}{2}$
 III. $a \circ b = a \cdot b$
 IV. $12 \square 9 = ?$
 A) 160 B) 162 C) 164 D) 166 E) 168

14. I. $a \triangle b = (a \bullet b) + b$
 II. $a \bullet b = 7a + b^2$
 III. $11 \triangle 5 = ?$
 A) 101 B) 103 C) 105 D) 107 E) 109

15. I. $2a * b = (a \Delta b) 6$
 II. $a \Delta b = (a \bullet b) - 8$
 III. $a \bullet b = 5a - b$
 IV. $18 * 7 = ?$
 A) 120 B) 100 C) 160 D) 140 E) 180

16. I. $a \blacklozenge b = (a * b) \cdot 2$
 II. $a * b = (a \bullet b) - 7$
 III. $a \bullet b = (3a + b)$
 IV. $7 \blacklozenge 12 = ?$
 A) 52 B) 53 C) 54 D) 55 E) 56

17. I. $a \blacktriangle b = (a \bullet b) + 4b$
 II. $a \bullet b = (a * b) 5$
 III. $a * b = a + b$
 IV. $5 \blacktriangle 7 = ?$
 A) 44 B) 55 C) 66 D) 77 E) 88

18. I. $a \square b = \frac{a \circ b}{2}$
 II. $a \circ b = (a \blacksquare b) + 2a$
 III. $a \blacksquare b = a \cdot b$
 IV. $6 \square 3 = ?$
 A) 11 B) 13 C) 15 D) 17 E) 19

19. I. $a * b = (a \bullet b) \cdot 4$
 II. $a \bullet b = (a \star b) + ab$
 III. $a \star b = (2a + b)$
 IV. $4 * 5 = ?$
 A) 112 B) 122 C) 132 D) 142 E) 152

20. I. $a \spadesuit b = (a \bullet b) + 5b$
 II. $a \bullet b = (a \star b) - 3a^2$
 III. $a \star b = a^3 + b^2$
 IV. $4 \spadesuit 5 = ?$
 A) 36 B) 48 C) 52 D) 66 E) 70

Yanıtlar / Answers

1. D	4. D	7. D	10. B	13. B	16. A	19. C
2. D	5. A	8. E	11. A	14. D	17. E	20. D
3. E	6. D	9. E	12. E	15. E	18. C	

1. I. $a \blacktriangle b = 2a + b$

II. $3 \blacktriangle x = 4 \blacktriangle 2$

III. $x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

2. I. $a \clubsuit b = \begin{cases} a+2 \cdot b, & a > b \\ 2 \cdot a+b, & a < b \\ a+b, & a=b \end{cases}$

II. $((4 \clubsuit 4) \clubsuit (5 \clubsuit 2)) = ?$

- A) 22 B) 23 C) 24 D) 25 E) 26

3. I. $a \star b = ab + 1$

II. $a \blacktriangle b = a + 3b$

III. $a \bigcirc b = \frac{a+b}{2}$

IV. $(3 \star 3) \bigcirc (1 \blacktriangle 3) = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

4. I. $a \blacktriangle b = a^2 + b^2 - 3 \cdot a \cdot (a \blacktriangle b)$

II. $5 \blacktriangle 1 = ?$

- A) $\frac{27}{16}$ B) $\frac{13}{8}$ C) $\frac{3}{2}$ D) $\frac{5}{4}$ E) 1

5. I. $(a, b) \nabla (c, d) = (a \cdot b + c, c \cdot d + b)$

II. $(a, b) \square (c, d) = \left(\frac{a}{b} + d, \frac{c}{d} + b \right)$

III. $((6, 2) \square (9, 3)) \nabla (2, 3) = ?$

- A) (33, 10) B) (32, 10) C) (33, 11)
D) (32, 11) E) (34, 11)

6. I. $a \blacktriangle b = (a \ast b) + 3$

II. $a \ast b = (a \bullet b) - 5$

III. $a \bullet b = a - b$

IV. $8 \blacktriangle 6 = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

7. I. $a^3 \blacktriangle b^2 = \frac{1}{a} - \frac{1}{b}$

II. $64 \blacktriangle 25 = ?$

- A) $\frac{3}{20}$ B) $\frac{1}{20}$ C) $\frac{11}{20}$ D) $\frac{9}{20}$ E) $\frac{7}{20}$

8. I. $a \blacktriangle b = (a \ast b) - 3a$

II. $a \ast b = (a \bullet b) + 2ab$

III. $a \bullet b = \frac{a \cdot b}{5}$

IV. $5 \blacktriangle 3 = ?$

- A) 14 B) 15 C) 16 D) 17 E) 18

9. I. $a \Delta b = \frac{1+a \Delta b}{a+b-1} + a$

II. $\frac{1}{2} \Delta 3 = ?$

- A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

10. I. $a \blacktriangle b = 4a^2 - b^2$

II. $a \blacktriangle 4 = 20$

III. $a = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

11. I. $a * b = 5a + 3b$
 II. $a \bullet b = 4a - b$
 III. $a \blacktriangle b = 3a + 2b$
 IV. $5 * (8 \bullet (4 \blacktriangle 5)) = ?$
 A) 50 B) 55 C) 60 D) 65 E) 70

12. I. $a * b = \frac{a^2 - b^2}{2}$
 II. $a \bullet b = \frac{a \cdot b}{2}$
 III. $(5 * 3) \bullet (10 * 8) = ?$
 A) 75 B) 74 C) 73 D) 72 E) 70

13. I. $a \star b = \frac{a \bullet b}{2}$
 II. $a \bullet b = (a \blacktriangle b) 3$
 III. $a \blacktriangle b = \frac{a \cdot b}{4}$
 IV. $5 \star 4 = ?$
 A) $\frac{16}{3}$ B) $\frac{17}{4}$ C) $\frac{15}{2}$ D) $\frac{19}{6}$ E) $\frac{11}{8}$

14. I. $a \square b = 2 \cdot a \cdot b - 3 \cdot (a \square b)$
 II. $4 \square 2 = ?$
 A) 1 B) 2 C) 4 D) 8 E) 16

15. I. $a \odot b = (a \bullet b) - a$
 II. $a \bullet b = (a \blacktriangle b) + b$
 III. $a \blacktriangle b = 2a + b$
 IV. $2 \odot 8 = ?$
 A) 14 B) 15 C) 16 D) 17 E) 18

16. I. $a \Delta b = \begin{cases} 2 \cdot a + b, & a < b \\ a \cdot b, & a \geq b \end{cases}$

II. $(4 \Delta 3) \Delta 14 = ?$

- A) 38 B) 40 C) 42 D) 44 E) 46

17. I. $(a, b) \oplus (c, d) = (a \cdot c, b \cdot d)$

II. $(a, b) \boxplus (c, d) = (b + c, a + d)$

III. $((4, 3) \boxplus (2, 5)) \oplus (6, 4) = ?$

- A) (28, 30) B) (30, 36) C) (32, 34)
 D) (30, 32) E) (28, 32)

18. I. $a * b = 5 \cdot (a \blacktriangle b)$

II. $a \blacktriangle b = 4 \cdot (a \bullet b)$

III. $a \bullet b = a \cdot b - 1$

IV. $8 * 3 = ?$

- A) 460 B) 459 C) 458 D) 457 E) 456

19. I. $a * b = \frac{1}{a} + \frac{1}{b}$

II. $a \blacktriangle b = \frac{1}{b} - \frac{1}{a}$

III. $(5 \blacktriangle 3) * (4 * 2) = ?$

- A) $\frac{51}{6}$ B) $\frac{53}{6}$ C) $\frac{55}{6}$ D) $\frac{57}{6}$ E) $\frac{59}{6}$

Yanıtlar / Answers

1. B	4. B	7. B	10. B	13. C	16. A	19. B
2. D	5. D	8. E	11. B	14. C	17. B	
3. A	6. A	9. B	12. D	15. E	18. A	

1. I. $a \ominus b = a \square 2b$
 II. $a \square b = 2a \bullet b$
 III. $a \bullet b = \frac{a+b}{2}$
 IV. $4 \ominus 6 = ?$
 A) 6 B) 8 C) 10 D) 12 E) 14
2. I. $a \supset b = 2a \blacktriangle 3b$
 II. $a * b = a - 2b$
 III. $a \blacktriangle b = 3a * 2b$
 IV. $12 \supset 4 = ?$
 A) 24 B) 28 C) 32 D) 36 E) 40
3. I. $(a \blacktriangle b) * c = (a + b^2) * c$
 II. $(a * b) \triangle c = (3(a + b)) \triangle c$
 III. $(a \triangle b) = 2 \cdot (a + b)$
 IV. $(4 \blacktriangle 3) * (7 \triangle 5) = ?$
 A) 108 B) 109 C) 110 D) 111 E) 112
4. I. $a \blacksquare b = (a \times b) - a$
 II. $a * b = a^2 - b$
 III. $a * b = a + 3 \cdot b$
 IV. $(5 \blacksquare 2) * (3 * 6) = ?$
 A) 3 B) 4 C) 5 D) 6 E) 7
5. I. $a \odot b = 2a + b^2$
 II. $a \div b = a^2 - a^b$
 III. $a \blacktriangle b = \frac{a \times b}{3}$
 IV. $(3 \odot 4) \blacktriangle (4 \div 1) = ?$
 A) 44 B) 55 C) 66 D) 77 E) 88

6. I. $a \blacksquare b = (a^2 - 2b)$
 II. $a \blacklozenge b = a^3 + b$
 III. $a \blacktriangle b = 2a + 3b$
 IV. $(4 \blacksquare 6) \blacktriangle (2 \div 3) = ?$
 A) 38 B) 39 C) 40 D) 41 E) 42
7. I. $a \diamond b = \frac{1}{a} + \frac{1}{b}$
 II. $a \otimes b = a \times \frac{1}{b}$
 III. $a \blacktriangle b = a - b$
 IV. $(x \diamond y) \blacktriangle (y \otimes x) = ?$
 A) $\frac{x-y+x^2}{y}$ B) $\frac{y+x^2}{xy}$ C) $\frac{x+y-y^2}{xy}$
 D) $\frac{x^2+y^2-x}{x}$ E) $\frac{x+y^2}{y}$
8. I. $x \bullet y = x^2 - y$
 II. $y \square x = y + x - 1$
 III. $x \triangle y = \frac{x}{y} + 1$
 IV. $(a \bullet b) \square (b \triangle a) = ?$
 A) $\frac{a^3 - ab + b}{a}$ B) $\frac{a + b^3 - ab}{b}$ C) $\frac{a + ab^3 + b}{ab}$
 D) $\frac{a^2 + b^3 - ab}{b}$ E) $\frac{a^3 + b^2 + a}{ab}$
9. I. $\frac{6}{1 + \left(\frac{1}{a \triangle b} \right)} = a \cdot \frac{1}{b}$
 II. $\frac{3}{2} \triangle \frac{1}{2} = ?$
 A) $-\frac{1}{2}$ B) -1 C) $\frac{1}{2}$ D) 1 E) 2

10. I. $42 \square 68 = 52$
 II. $16 \square 58 = 84$
 III. $24 \square 96 = 144$
 IV. $46 \square 86 = ?$
 A) 70 B) 80 C) 90 D) 100 E) 110

11. I. $6432 * = 15$
 II. $8426 * = 20$
 III. $7369 * = 25$
 IV. $8753 * = ?$
 A) 22 B) 23 C) 24 D) 25 E) 26

12. I. $756 \square = 210$
 II. $693 \square = 162$
 III. $875 \square = 280$
 IV. $943 \square = ?$
 A) 96 B) 108 C) 120 D) 132 E) 144

13. I. $94 \diamond 82 = 11$
 II. $75 \diamond 61 = 7$
 III. $62 \diamond 52 = 7$
 IV. $93 \diamond 73 = ?$
 A) 9 B) 10 C) 11 D) 12 E) 13

14. I. $6 \blacksquare 9 = 45$
 II. $5 \blacksquare 7 = 28$
 III. $8 \blacksquare 5 = 35$
 IV. $2 \blacksquare 6 = ?$
 A) 5 B) 6 C) 7 D) 8 E) 9

15. I. $5 + 2 = 21$
 II. $6 + 12 = 54$
 III. $16 + 7 = 69$
 IV. $21 + 3 = ?$
 A) 66 B) 68 C) 70 D) 72 E) 74

16. I. $12 \times 4 = 12$
 II. $23 \times 75 = 60$
 III. $19 \times 9 = 90$
 IV. $6 \times 83 = ?$
 A) 60 B) 62 C) 64 D) 66 E) 68

17. I. $6931 * = 152$
 II. $8275 * = 102$
 III. $9694 * = 155$
 IV. $5783 * = ?$
 A) 122 B) 123 C) 124 D) 125 E) 126

18. I. $763 \bigcirc = 4218$
 II. $695 \bigcirc = 5445$
 III. $536 \bigcirc = 1518$
 IV. $873 \bigcirc = ?$
 A) 5734 B) 5236 C) 5826 D) 5621 E) 5224

19. I. $52 \oplus 63 = 9$
 II. $83 \oplus 72 = 25$
 III. $94 \oplus 52 = 15$
 IV. $73 \oplus 62 = ?$
 A) 9 B) 16 C) 18 D) 24 E) 32

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Yanıtlar / Answers

1. C	4. B	7. C	10. B	13. B	16. D	19. B
2. A	5. E	8. A	11. B	14. B	17. D	
3. D	6. D	9. D	12. B	15. D	18. D	

SAYI DİZİLERİ NUMBER SERIES

BÖLÜM CHAPTER

4

Sayı Dizileri / Number Series

Test 1

1. I. 2 2 4 2 20 160
II. 3 5 9 6 54 486
III. 4 14 16 7 112 1120
IV. ? 5 ? 25 ? 25 ? 25 ?
A) 5 20 100 1000
B) 5 25 160 1760
C) 5 25 200 2200
D) 5 30 240 3000
E) 5 15 105 1050

2. I. 5 2 6 9
II. 7 2 10 15
III. 9 2 14 21
IV. ? 11 ? 2 ? 18 ? 29
A) 11 2 18 29
B) 11 2 16 27
C) 11 2 22 31
D) 11 2 22 33
E) 11 2 18 27

3. I. 4 -5 -1 -5 +5 0
II. 4 +7 11 77 70
III. 4 -9 -5 -45 -36
IV. ? 11 ? 15 ? 16 ? 15
A) 4 15 165 154
B) 4 15 165 176
C) 4 -7 -77 66
D) 4 7 77 87
E) 4 13 117 108

4. I. 4 8 10 20 22
II. 2 10 15 75 80
III. 5 15 12 36 33
IV. ? ? ? ? ?
A) 2 12 6 36 42
B) 2 10 5 25 20
C) 3 18 24 144 150
D) 3 18 12 72 66
E) 2 8 4 16 28

5. I. 6 2 5 1 6
II. 129 43 40 8 3
III. 10 2 7 1 8
IV. ? ? ? ? ?
A) -18 -2 -11 -1 10
B) 225 45 40 8 3
C) 340 68 63 9 2
D) 65 13 7 1 8
E) 270 54 48 8 2

6. I. 24 21 16 9
II. 4 11 16 19
III. 30 25 18 9
IV. ? 7 ? 5 ?
A) 5 15 23 29
B) 5 10 17 26
C) 8 17 24 28
D) 5 -4 -11 -16
E) 5 14 21 26

7. I. -4 2 -8 5 -15 -10
II. -3 9 -4 -5 -20 -14
III. -5 4 -20 15 -75 -68
IV. ? ? ? ? ?
A) -4 -16 -20 -100 -105
B) -4 -20 -14 -98 -90
C) -6 -30 -36 -252 -260
D) -4 -20 -26 -182 -174
E) -3 -15 -9 -54 -46

8. I. 20 22 19 23 18
II. 30 34 28 (?) 26
A) 24 B) 26 C) 36 D) 32 E) 26

9. I. 2 4 20 160
II. 2 6 36 324
III. 2 8 (?) (?)
A) 48, 422 B) 56, 560 C) 72, 666
D) 40, 400 E) 64, 640

10. I. 4.2 8.3 24.4 96
 II. 6.4 24.5 120.6 720
 III. 5.2 15.4 60.5 300
 IV. 3.5 ? 6 210 7 1470
 A) 7, 42 B) 7, 105 C) 7, 35
 D) 7, 28 E) 7, 39

11. I. 5.2 8.3 24.4 21
 II. 5.2 10.5 50.6 45
 III. 5.2 12.7 84.8 77
 IV. 5 (?) 117
 A) 12, 121 B) 7, 126 C) 7, 116
 D) 14, 126 E) 16, 112

12. I. 2 4 8 32
 II. 5 10 50 500
 III. 4 8 32 256
 IV. 7 14 (?) (?)
 A) 70, 560 B) 74, 888 C) 112, 1792
 D) 98, 1372 E) 60, 1200

13. I. 4.5 20.6 360.7 380
 II. 4.5 12.10 120.11 132
 III. 4.2 8.5 48.6 56
 IV. 4 (?) (?) (?)
 A) 6, 24, 30 B) 6, 16, 24 C) 6, 20, 36
 D) 4, 12, 27 E) 4, 20, 38

14. I. 8.4 1.4 9
 II. 60.10 3.3 24.33
 III. 150.15 4.4 48.61
 IV. (?) (?) (?) 32 49
 A) 238, 17, 2 B) 224, 16, 1 C) 196, 14, 2
 D) 257, 18, 3 E) 210, 15, 0

15. - 19. sorularda verilen sayı dizilerinin üç tanesi aynı veya benzer kurala göre düzenlenmiştir. Bunlar hangileridir?
 In questions 15 to 19, three of the given number series are ordered according to the same or similar rule. Find these number series.

15. I. 2.2 9.3 6
 II. 4.2 11.3 8
 III. 8.2 15.3 18
 IV. 5.2 12.3 15
 V. 12.2 19.3 16
 A) I, II, III B) II, III, V C) I, III, V
 D) I, II, V E) III, IV, V

16. I. 5.2 10.4 16.5 13
 II. 2.2 4.4 11.5 8
 III. 4.2 8.4 15.5 12
 IV. 3.2 6.4 13.5 16
 V. 6.2 12.4 19.5 16
 A) I, II, III B) II, III, V C) I, IV, V
 D) I, III, V E) II, IV, V

17. I. 6.2 18.3 15.4 60.5 64
 II. 2.2 6.4 3.4 12.5 16
 III. 3.2 9.4 6.4 24.5 20
 IV. 5.2 15.4 12.5 48.6 52
 V. 4.2 12.4 15.5 60.6 56
 A) I, II, IV B) I, IV, V C) II, III, IV
 D) I, II, V E) I, II, III

18. I. 5.2 3.3 6.4 24.5 19
 II. 17.2 15.3 5.4 25.5 20
 III. 8.2 6.3 2.4 8.5 3
 IV. 14.2 12.3 4.4 16.5 11
 V. 11.2 9.3 3.4 12.5 7
 A) I, II, III B) II, III, IV C) III, IV, V
 D) I, IV, V E) II, III, V

19. I. 5.2 7.3 4.4 8
 II. 5.2 2.3 9.4 18
 III. 5.2 9.3 3.4 11
 IV. 5.2 11.3 2.4 14
 V. 5.2 1.3 8.4 11
 A) I, II, III B) I, III, IV C) II, III, IV
 D) I, III, V E) II, III, V

Yanıtlar / Answers						
1. C	4. D	7. E	10. C	13. A	16. B	19. B
2. E	5. C	8. C	11. D	14. A	17. A	
3. A	6. E	9. B	12. D	15. D	18. C	

1. I. II. III. IV.
62 94 81 73
37 69 56 ?
A) 47 B) 48 C) 49 D) 50 E) 51

2. I. II. III. IV.
29 48 17 35
45 84 23 ?
A) 42 B) 51 C) 52 D) 61 E) 62

3. I. II. III. IV.
49 23 36 26
83 41 62 ?
A) 63 B) 61 C) 42 D) 41 E) 26

4. I. $4 + \frac{1}{3}$ $7 - \frac{1}{4}$ $3 + \frac{1}{5}$ $15 + \frac{1}{2}$
II. 13 16 12 (?) 10
A) 12 B) 18 C) 24 D) 42 E) 60

5. I. II. III. IV.
48 65 23 36
76 93 51 (?)
A) 14 B) 29 C) 64 D) 94 E) 162

6. I. II.
I. 3 5
II. 10 12
III. 24 26
IV. 52 54
V. ?
A) 58 B) 108 C) 126 D) 162 E) 216

7. I. II.
I. 108 12
II. 70 10
III. ? ?
IV. 18 6
V. 4 4
A) 32,5 B) 40,8 C) 32,4
D) 27,3 E) 49,7

8. I. II.
I. 490 472
II. 236 220
III. 110 96
IV. 48 36
V. (?) (?)
A) 16, 8 B) 16, 12 C) 18, 8
D) 12, 6 E) 20, 5

9. I. II.
I. 64 66
II. 32 38
III. 16 26
IV. 8 22
V. (?) (?)
A) 4, 18 B) 2, 16 C) 4, 20
D) 2, 20 E) 4, 22

10. I. $144 \div 2 = 64$
 II. $32 \div 4 = 72$
 III. (?) (?)
 IV. $8 \div 10 = 18$
 V. $9 \div 5 = 4$
 A) 24, 8 B) 16, 24 C) 36, 16
 D) 16, 48 E) 20, 24

11. (?) (?) $9 \xrightarrow{+3} 12 \xrightarrow{+6} 18 \xrightarrow{-5} 16 \xrightarrow{+7} 19 \xrightarrow{+5} 23 \xrightarrow{-2} 26$
 A) 5, 11 B) 4, 10 C) 5, 10
 D) 3, 10 E) 4, 11

12. $2 \xrightarrow{+4} 6 \xrightarrow{+6} 12 \xrightarrow{+14} (?) \xrightarrow{+16} (?) \xrightarrow{+14} 42 \xrightarrow{+16} 56 \xrightarrow{+16} 72$
 A) 18, 30 B) 18, 28 C) 24, 28
 D) 20, 28 E) 20, 30

13. $3 \xrightarrow{+4} 7 \xrightarrow{-5} 2 \xrightarrow{+5} 9 \xrightarrow{+4} 13 \xrightarrow{-5} 8 \xrightarrow{+5} 15 \xrightarrow{+4} 19 \xrightarrow{+4} (?) \xrightarrow{+4} (?)$
 A) 15, 20 B) 14, 21 C) 16, 21
 D) 17, 22 E) 16, 19

14. I. $24 \xrightarrow{-3} 21 \xrightarrow{-3} 16 \xrightarrow{-3} 9$
 II. $4 \xrightarrow{+5} 11 \xrightarrow{+5} 16 \xrightarrow{+5} 19$
 III. $30 \xrightarrow{-5} 25 \xrightarrow{-5} 18 \xrightarrow{-5} 9$
 IV. ? ? ? ?
 A) 5 15 23 29
 B) 5 10 17 26
 C) 8 17 24 28
 D) 5 -4 -11 -16
 E) 5 14 21 26

15. I. $4 \xrightarrow{+2} 8 \xrightarrow{+2} 10 \xrightarrow{+2} 20 \xrightarrow{+2} 22$
 II. $5 \xrightarrow{+3} 15 \xrightarrow{+3} 18 \xrightarrow{+3} 54 \xrightarrow{+3} 57$
 III. $2 \xrightarrow{+5} 10 \xrightarrow{+5} 15 \xrightarrow{+5} 75 \xrightarrow{+5} 80$
 IV. ? ? ? ? ?
 A) 2 12 6 36 30
 B) 2 10 15 75 80
 C) 3 18 24 144 150
 D) 3 18 12 72 66
 E) 2 8 4 16 28

16. I. $5 \xrightarrow{+9} 14 \xrightarrow{+9} 126 \xrightarrow{+9} 117$
 II. $5 \xrightarrow{+3} 12 \xrightarrow{+3} 84 \xrightarrow{+3} 77$
 III. $5 \xrightarrow{+3} 10 \xrightarrow{+3} 50 \xrightarrow{+3} 45$
 IV. $5 \xrightarrow{+3} (?) \xrightarrow{+3} (?) \xrightarrow{+3} 21$
 A) 9, 27 B) 9, 36 C) 6, 14
 D) 8, 24 E) 5, 15

17. I. $80 \xrightarrow{-10} 70 \xrightarrow{+10} 74 \xrightarrow{+8} 82$
 II. $80 \xrightarrow{-8} 72 \xrightarrow{+8} 78 \xrightarrow{+10} 88$
 III. $80 \xrightarrow{-6} 74 \xrightarrow{+6} 82 \xrightarrow{+12} 94$
 IV. $80 \xrightarrow{-4} 76 \xrightarrow{+4} (?) \xrightarrow{+4} (?)$
 A) 86 ; 88 B) 86 ; 98 C) 86 ; 100
 D) 88 ; 98 E) 88 ; 100

18. I. 2. 4 20 160
 II. 3 9 54 486
 III. 4 16 112 1120
 IV. ? ? ? ?
 A) 5 20 100 1000
 B) 5 25 160 1760
 C) 5 25 200 2200
 D) 5 30 240 3000
 E) 5 15 15 1050

Yanıtlar / Answers					
1. B	4. E	7. B	10. C	13. B	16. D
2. D	5. C	8. C	11. A	14. E	17. C
3. C	6. B	9. E	12. E	15. C	18. C

1. I. $2+6$ $8-1$ $7+5$ $12-2$ $10+4$ $14-3$ 11
 II. $14-6$ $8+1$ $9-5$ $4+2$ $6-4$ $2+7$ 5
 III. $2+8$ $10-2$ $8+6$ $14-4$ $10+4$ $14-6$ 8
 IV. ?
 (A) 14 6 8 2 6 2 8
 B) 14 22 20 26 22 26 20
 C) 124 20 19 24 22 26 23
 D) 14 12 20 16 22 16 20
 E) 14 15 9 11 6 9 5

2. I. $28+5$ $33-3$ $30+5$ $35-3$ 32 37
 II. $42-5$ $37+3$ 40 35 38 33
 III. $4+6$ 10 8 14 12 18
 IV. ?
 A) 12 14 13 15 14 16
 B) 18 22 20 24 22 26
 C) 24 32 26 34 28 36
 D) 40 45 43 48 46 51
 (E) 56 50 52 46 48 42

3. I. $30+5$ $35-2$ $33+5$ 38 36 41
 II. $30-5$ $25+3$ $27-5$ $22+2$ 24 19
 III. $30+2$ $37-2$ $34+7$ $41-2$ 38 45
 IV. ?
 A) 30 33 36 29 32 25
 B) 30 33 26 29 22 25
 C) 30 23 16 19 21 24
 D) 30 27 34 31 38 35
 (E) 30 23 26 19 22 15

4. I. $2+3$ $6+3$ $9+7$ 27 30 90 93
 II. $2+4$ $8+4$ $12+4$ 48 52 208 212
 III. $4+2$ $8-2$ 6 12 10 20 18
 IV. ?
 A) 4 12 15 45 48 144 147
 B) 4 2 4 2 4 2 4
 C) 4 1 3 0 0 -3 -9
 D) 4 16 20 80 76 304 308
 (E) 4 12 9 27 24 72 69

5. I. $5+2$ $3+3$ $9-2$ $7+3$ 21 19
 II. $5+3$ $15-2$ $13+3$ $39-2$ 37 111
 III. $5+2$ $10+3$ $17+2$ $34+3$ 41 82
 IV. ?
 A) 5 35 37 259 261 268
 B) 5 7 49 51 357 359
 (C) 5 12 24 31 62 69
 D) 5 10 20 27 34 68
 E) 5 7 9 63 441 443

6. I. $36-3$ $33+3$ $30-3$ $27-3$ 24 21
 II. $5+3$ $8+3$ $11+3$ 14 17 20
 III. $47-5$ $42-5$ 37 32 27 22
 IV. ?
 (A) 18 23 28 33 38 43
 B) 13 16 19 22 25 28
 C) 21 18 15 12 9 6
 D) 4 9 6 11 8 13
 E) 20 15 18 13 16 11

7. I. $12 \div 13 + 2 \cdot 15 \div 3$ 18 22 27
 II. $42 \div 41 - 2 \cdot 39 \div 3$ 36 32 27
 III. $16 \div 20 + 2 \cdot 28$ 40 56 76
 IV. ?
 (A) 92 88 80 68 52 32
 B) 58 55 49 40 28 13
 C) 5 7 11 17 25 35
 D) 42 39 40 37 38 35
 E) 2 6 12 36 72 216

8. I. $2 \div 3 \cdot 3 + 3 \cdot 9 \div 1$ 10.3 30.4 31
 II. $2 \cdot 3 \cdot 6 \div 1 \cdot 7$ 21 22 66
 III. $2 \div 3 \cdot 10 \div 2 \cdot 12 \cdot 5$ 60.4 62 310
 IV. ?
 (A) 2 4 20 22 110 112
 B) 2 7 14 19 38 43
 C) 2 4 6 30 150 152
 D) 2 10 50 52 54 270
 E) 2 7 12 24 48 96

9. I. $2 \div 3 \cdot 3 \div 2 \cdot 5 \div 3$ 8 12 17 23
 II. $40 \div 39 - 2 \cdot 37$ 34 30 25 19
 III. $3 \div 2 \cdot 5 \div 2 \cdot 9 \div 6$ 15 23 33 45
 IV. ?
 A) 60 58 56 52 50 48
 B) 60 59 48 57 56 55 54
 (C) 60 58 54 48 40 30 18
 D) 60 59 57 54 40 45 39
 E) 60 57 51 42 30 16 0

10. I. $171 \div 3 \cdot 57 \div 3 \cdot 54 \div 3$ 18.2 15 5 2
 II. $12 \div 6 \div 3 \cdot 8 \div 3$ 4 6 3 5
 III. $3 \cdot 12 \div 16$ 64 68 272 276
 IV. ?
 (A) 3 12 8 28 112 108 100
 (B) 3 9 6 18 15 45 42
 C) 3 7 11 15 19 23 27
 D) 3 9 12 36 39 117 120
 E) 3 12 6 24 12 48 24

11. I. $19 - 4 \cdot 15 \div 3 \cdot 15 - 4 \cdot 11$ 11 7 7
 II. $8 - 4 \cdot 4 \div 2 \cdot 8 - 4 \cdot 5$ 8 4 8
 III. $7 - 4 \cdot 3 \cdot 3 \cdot 9$ 5 15 11 33
 IV. ?
 A) 5 1 5 1 5 1 5
 B) 9 5 15 11 33 29 87
 C) 7 3 6 2 4 0 0
 (D) 6 2 8 4 16 12 48
 E) 10 6 18 15 42 38 114

12. I. $3 \div 2 \cdot 5 \div 2 \cdot 9 \div 2$ 15 23 33
 II. $52 \div 50 - 2 \cdot 46 \div 2$ 40 32 22
 III. $32 \div 3 \cdot 35 \div 2 \cdot 41 \div 2$ 50 62 77
 IV. ?
 A) 18 20 24 30 38 48
 B) 18 21 27 36 48 63
 (C) 51 48 42 33 21 6
 D) 6 8 24 26 78 80
 E) 12 17 15 20 18 23

13. I. $48 \div 6 \cdot 54 \div 6 \cdot 60$ 66 72 78
 II. $32 \div 6 \cdot 26 \div 6 \cdot 20 \div 6$ 14 8 2
 III. $88 \div 2 \cdot 80$ 72 64 56 48
 IV. ?
 A) 36 40 44 48 52 36
 (B) 16 24 32 40 48 56
 C) 60 52 44 36 28 20
 D) 6 12 18 24 30 36
 E) 42 38 34 30 26 22

14. I. $12 \div 3 \cdot 15 \div 2 \cdot 13 \div 2$ 16.2 14 17
 II. $4 \div 3 \cdot 12 \div 3 \cdot 6 \div 3$ 18.2 9 27
 III. $12 \div 3 \cdot 14 \div 3 \cdot 11 \div 3$ 13 10 12
 IV. ?
 (A) 45 90 30 60 20 40
 B) 12 36 18 54 27 81
 C) 15 18 16 19 17 20
 D) 2 8 4 16 8 32
 E) 4 8 10 20 22 44

Yanıtlar / Answers

1. A	4. E	7. A	10. B	13. B
2. E	5. C	8. A	11. D	14. A
3. E	6. A	9. C	12. C	

1.

I.	6	9	18	21	42	45
II.	77	74	37	34	17	14
III.	2	4	12	14	42	44
IV.	?					
A)	5	10	12	24	26	52
B)	80	78	26	24	8	6
C)	45	42	21	18	9	6
D)	4	12	14	42	44	132
E)	80	78	75	73	70	68

2.

I.	4	5	15	16	48	49
II.	4	12	13	39	40	120
III.	4	2	10	8	40	38
IV.	?					
A)	4	20	18	90	88	440
B)	4	6	30	32	160	162
C)	4	8	13	26	31	62
D)	4	9	18	23	46	51
E)	4	12	15	42	44	162

3.

I.	279	93	90	30	27	9
II.	848	212	208	52	48	12
III.	4	12	15	45	48	144
IV.	?					
A)	6	12	14	28	30	60
B)	2	10	15	75	80	400
C)	36	18	20	10	12	6
D)	5	20	10	40	20	80
E)	3	12	16	64	68	272

4.

I.	3	6	7	14	15	30
II.	5	10	9	18	17	34
III.	2	4	6	12	14	28
IV.	?					
A)	11	22	20	40	38	76
B)	5	10	12	24	26	52
C)	40	38	34	28	20	10
D)	2	4	8	16	32	64
E)	4	8	9	18	38	19

5.

I.	3	12	6	24	12	48
II.	6	10	8	12	10	14
III.	128	256	64	128	32	64
IV.	?					
A)	10	20	30	60	70	140
B)	2	6	12	36	72	216
C)	5	10	30	60	180	360
D)	40	42	38	40	36	38
E)	18	21	19	22	20	23

6.

I.	2	6	7	21	22	66
II.	4	12	11	33	32	96
III.	6	12	14	28	30	60
IV.	?					
A)	3	6	12	24	48	96
B)	3	6	9	12	15	18
C)	4	12	14	42	44	132
D)	8	16	18	36	38	76
E)	4	8	6	12	10	20

7. I. 6 4 12 10 30 28
 II. 6 18 16 48 46 138
 III. 6 12 19 38 45 90
 IV. ?
 A) 6 42 44 308 310 1270
 B) 6 12 24 31 62 124
 C) 6 13 26 33 66 73
 D) 6 8 56 48 406 408
 E) 6 8 10 70 72 74

8. I. 2 4 4 8 8 ?
 II. 7 14 14 28 28 ?
 A) 24,96 B) 42,85 C) 16,56
 D) 96,256 E) 46,86

9. I. 120 24 6 2 1 ?
 II. 600 120 30 10 5 ?
 A) 2,10 B) 0,0 C) 1,5 D) 3,15 E) 2,8

10. I. 7 20 59 176 ?
 II. 3 15 63 255 ?
 A) 527,1023 B) 316,305 C) 540,280
 D) 516,504 E) 428,314

11. I. 66 34 18 10 ? 4
 II. 33 17 9 5 ? 2
 A) 5,1 B) 6,3 C) 5,3 D) 6,2 E) 7,3

12. I. 5 5 3 6 3 9 ?
 II. -2 -2 0 0 3 9 ?
 A) 6,4 B) 6,18 C) 5,15 D) 5,3 E) 5,13

13. I. 5 12 26 54 110 ?
 II. 11 25 53 109 221 ?
 A) 227,436 B) 221,545 C) 223,221
 D) 333,525 E) 222,445

14. I. 1 4 2 5 3 ? 4
 II. 1 2 4 7 11 16 ?
 A) 6,22 B) 5,15 C) 6,8 D) 16,8 E) 6,9

15. I. 3 6 12 15 ? 33
 II. 1 2 5 10 13 ?
 A) 5,4 B) 6,5 C) 4,5 D) 8,14 E) 30,26

16. 2 8 10 40 42 168 170 ?
 A) 80 B) 20 C) 82 D) 328 E) 680

17. 105 110 120 135 ? 150 165
 A) 110 B) 120 C) 140 D) 180 E) 280

18. I. 4 16 8 32 16 64 ?
 II. 6 4 12 8 24 16 ?
 A) 64,64 B) 64,66 C) 256,258
 D) 32,48 E) 31,22

19. I. ? 3 6 18 72 360
 II. ? 4 6 9 13 18
 A) 2,9 B) 3,21 C) 5,9 D) 2,6 E) 3,3

20. I. 10 5 20 10 40 20 ?
 II. 10 ? 30 30 90 90 270
 A) 34,0 B) 80,10 C) 80,0
 D) 84,10 E) 4,10

21. 11 10 13 8 15 6 ?
 A) 5 B) 8 C) 13 D) 15 E) 17

Yanıtlar / Answers

1. B	4. A	7. C	10. A	13. E	16. E	19. E
2. A	5. D	8. C	11. B	14. A	17. C	20. B
3. E	6. E	9. C	12. E	15. E	18. D	21. E

1. I. 4 $\xrightarrow{+3}$ 7 $\xrightarrow{+4}$ 11 $\xrightarrow{+5}$ 16 ?
 II. 18 17 15 12 8
 A) 4 B) 22 C) 33 D) 44 E) 55

2. I. 64 $\xrightarrow{+8}$ 72 $\xrightarrow{-4}$ 68 $\xrightarrow{+5}$ 73 $\xrightarrow{+5}$ 78
 II. 72 $\xrightarrow{-4}$ 68 $\xrightarrow{+5}$ 73 $\xrightarrow{+5}$ 78
 III. 25 $\xrightarrow{+3}$ 28 $\xrightarrow{+3}$ 31 $\xrightarrow{+3}$ 34
 IV. 34 $\xrightarrow{+3}$ 37 $\xrightarrow{+3}$ 40 $\xrightarrow{+3}$ 43
 V. 77 ?
 A) 68 B) 76 C) 86 D) 72 E) 74

3. I. 4 6 5 7 6 8 ?
 II. 5 9 18 22 44 48 ?
 A) 42 B) 28 C) 24 D) 7 E) 24
 28 14 18 96 28

4. I. 8 $\xrightarrow{+4}$ 12 $\xrightarrow{-2}$ 10
 II. 5 $\xrightarrow{-4}$ 1 $\xrightarrow{+2}$ 3
 III. 7 $\xrightarrow{-2}$ 5 $\xrightarrow{+3}$?
 IV. 5 $\xrightarrow{+5}$ 11 $\xrightarrow{-3}$ 8
 A) 1 B) 2 C) 4 D) 6 E) 8

5. I. 386 (130) 126
 II. 554 (?) 204
 A) 204 B) 102 C) 175 D) 350 E) 165

6. I. 5 $\xrightarrow{+4}$ 9 $\xrightarrow{+5}$ 14
 II. 8 $\xrightarrow{+7}$ 15 $\xrightarrow{+8}$ 23
 III. 11 21 ?
 A) 11 B) 22 C) 32 D) 35 E) 46

7. I. 24 45
 II. 48 89
 III. 76 147
 IV. 84 ?
 A) 135 B) 150 C) 175 D) 180 E) 195
 165

8. I. 0 0
 II. 1 1
 III. 2 4
 IV. 5 15
 V. 8 ?
 A) 32 B) 26 C) 11 D) 10 E) 7

9. I. (29) (11)
 II. (25) (7)
 III. (21) (3)
 IV. (17) (?)
 A) 2 B) 4 C) 6 D) 8 E) 10

10. I. 16 100 6
 II. 8 50 3
 III. 10 ? 4
 A) 60 B) 43 C) 30 D) 20 E) 4

11. 2 1 3 9 8 10 30 ?
A) 29 B) 21 C) 17 D) 9 E) 2

12. I. 16 10 11
II. 13 ? 9
A) 8 B) 8,5 C) 10 D) 10,5 E) 11

13. I. II. III. IV.
 $12 + 2^2$ $34 + 2^2$ $56 - 1^2$ 44
 $23 + 4^2$ $65 + 4^2$ $107 - 2^2$?
A) 95 B) 85 C) 83 D) 58 E) 55

14. I. 11 13 17 23 31 K
II. 6 7 10 15 22 L
 $\Rightarrow K + L = ?$
A) 71 B) 72 C) 73 D) 74 E) 75

15. I. 64 74 85 97 110 K
II. 142 134 122 114 102 L
 $\Rightarrow K + L = ?$
A) 218 B) 219 C) 220 D) 221 E) 222

16. I. 9 5 25 21 105
II. 8 40 36 180 ?
A) 8 B) 16 C) 26 D) 144 E) 176

17. 1 2 6 16 44 ?
A) 14 B) 26 C) 48 D) 86 E) 120

18. I. 5 8 14 26 50 98
II. 4 7 13 ? 49 97
A) 7 B) 13 C) 25 D) 49 E) 97

19. I. $3n$, $3n+1$, $3n+2$
II. a , b , 11 $\Rightarrow a \times b = ?$
A) 100 B) 90 C) 80 D) 60 E) 50

20. 4 5 7 10 11 13 16 17 19 22 ?
A) 23 B) 24 C) 25 D) 26 E) 27

21. 0
1 2
2 4 12 $\Rightarrow (x, y) = ?$
3 6 18 72
4 x 24 y 480
A) (8, 96) B) (8, 40) C) (12, 60)
D) (12, 360) E) (8, 72)

Yanıtlar / Answers

1. B	4. D	7. E	10. A	13. B	16. E	19. B
2. C	5. C	8. A	11. A	14. B	17. E	20. A
3. D	6. C	9. D	12. A	15. A	18. C	21. A

1. I. 2 $\square$, 3 $\square$, 4 $\square$, 5 $\triangle$
 II. 12, 15, 16, ?
 A) 19 B) 17 C) 16 D) 15 E) 12

2. I. 3 6 27
 II. 7 8 45
 III. 9 2 33
 IV. 5 8 ?
 A) 33 B) 36 C) 39 D) 42 E) 45

3. I. 21 42 33
 II. 57 18 39
 III. 15 16 ?
 A) 14 B) 15 C) 16 D) 17 E) 18

4. I. 42 68 84
 II. 74 34 77
 III. 91 14 ?
 A) 30 B) 40 C) 50 D) 60 E) 70

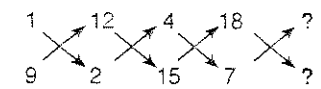
5. I. 5 8
 II. 7 12
 III. 6 10
 IV. 8 ?
 A) 14 B) 16 C) 18 D) 20 E) 22

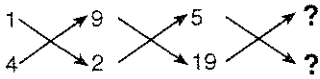
6. I. 8 2 18
 II. 9 4 15
 III. 6 5 3
 IV. 7 2 ?
 A) 15 B) 19 C) 8 D) 9 E) 13

7. I. 18 19 20 21 22
 II. 12 11 10 9 ?
 III. 30 8 30 12 30
 A) 22 B) 17 C) 12 D) 8 E) 3

8. I. 2 4 4
 II. 3 5 6
 III. 4 6 8
 IV. 7 9 ?
 A) 2 B) 8 C) 14 D) 16 E) 20

9. I. 5 4 100
 II. 2 7 28
 III. 4 3 48
 IV. 7 5 ?
 A) 37 B) 54 C) 87 D) 135 E) 245

10. 
 A) 21 B) 8 C) 9 D) 11 E) 21
 24 21 21 21 11

11. 
- A) 39 B) 39 C) 7 D) 28 E) 26
- 11 26 39 11 39

12. I. $4 \div 2 = 3$ 6
 II. 6 $6 \div 2 = 18$
 III. $10 \div 2 = 5$ 25
 IV. 11 $12 \div 2 = ?$
 A) 28 B) 31 C) 44 D) 58 E) 66

13. 4 9 61 52 63 94 ?
 A) 38 B) 46 C) 52 D) 64 E) 76

14. 1 8 27 64 125 ?
 A) 251 B) 185 C) 216 D) 218 E) 318

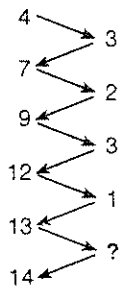
15. I. II. III. IV. V.
 0 1 4 7 10
 0 2 8 14 20
 0 4 64 196 400
 5 9 69 201 ?
 A) 205 B) 206 C) 395
 D) 405 E) 418

16. I. $3 + 4 = 7 \cdot 12$ 84
 II. $5 + 3 = 8 \cdot 7$?
 A) 105 B) 207 C) 84 D) 96 E) 56

17. $+2 -7 +1 +2 -1 +1$
 22 25 18 19 22 15 16 19 ? 13
 A) 16 B) 15 C) 14 D) 13 E) 12

18. 12 7 24 77 48 847 ?
 A) 96 B) 102 C) 112 D) 124 E) 148

19. $+13 +26$
 11 24 50 ?
 A) 100 B) 101 C) 102 D) 104 E) 105

20. 
- A) 1 B) 2 C) 3 D) 4 E) 5

Yanıtlar / Answers

1. D	4. C	7. D	10. D	13. B	16. E	19. C
2. C	5. A	8. C	11. B	14. C	17. E	20. A
3. D	6. A	9. E	12. E	15. D	18. A	

1. ve 7. sorulardaki sayı dizileri farklı birer kurala göre dizilmiştir. Bu dizilerin herbirinde kurala uymayan bir sayı vardır. Bu sayıyı bulunuz.

In questions 1 to 7, every number series are ordered according to a different rule. But in each number series, there is a number which is writing wrong. Find the wrong number in each number serie.

1. 5 0 3 12 9 10 40 35 38
A) 5 B) 12 C) 9 D) 40 E) 35

2. 21 23 26 30 36 41 48
A) 41 B) 30 C) 36 D) 26 E) 23

3. 2 4 7 6 12 15 14 27 31 30
A) 4 B) 6 C) 12 D) 27 E) 30

4. 101, 110, 105, 115, 109, 120, 113, 124, 117
A) 101 B) 105 C) 120 D) 124 E) 117

5. 5 10 20 40 70 160
A) 10 B) 20 C) 40 D) 70 E) 160

6. 9 16 10 19 14 25 21 34 32 46
A) 16 B) 19 C) 32 D) 21 E) 14

7. 24 17 25 16 26 15 27 16
A) 10 B) 25 C) 16 D) 26 E) 29

8. 9 12 18 30 54 ? ?
A) 102,208 B) 102,198 C) 198,202
D) 150,174 E) 148,164

9. 24 26 30 36 44 54 ?
A) 58 B) 60 C) 62
D) 64 E) 66

10. 30 29 26 21 14 ?
A) 2 B) 4 C) 5
D) 8 E) 10

11. 12 6 8 4 6 ?
A) 3 B) 4 C) 5
D) 6 E) 7

12. 1 4 ? 19 31 46
A) 10 B) 20 C) 30
D) 40 E) 50

13. $3 + 5 = 8$ $8 + 15 = 23$ $23 + 45 = 68$?
 A) 170 B) 186 C) 194
 D) 203 E) 212

14. 2 1 3 2 5 4 9 7 ?
 A) 11 B) 14 C) 17
 D) 23 E) 35

15. 2 4 12 24 72 144 ?
 A) 128 B) 256 C) 322
 D) 396 E) 432

16. 2 21 6 20 11 17 17 12 24 ? ?
 A) 5,32 B) 5,24 C) 6,18
 D) 6,32 E) 8,24

17. 1 3 4 4 10 6 22 10 ? ?
 A) 18,40 B) 46,18 C) 14,20 D) 14,46 E) 16,40

18. $\sqrt{2}$ 2 4 16 32 ?
 A) 448 B) 728 C) 968
 D) 1024 E) 1172

19. I. 160 80 ? 20 10
 II. 1 2 5 10 13 ?
 A) 40,30 B) 30,20 C) 40,0
 D) 17,34 E) 40,26

20. I. 2 4 3 6 ? 10
 II. 1 4 5 20 21 ?
 A) 5,60 B) 4,24 C) 5,40
 D) 7,24 E) 5,84

21. I. 4 12 6 18 9 ? 27
 II. 3 5 15 17 51 ?
 A) 27,15 B) 28,14 C) 14,27
 D) 27,53 E) 13,27

22. 18 20 16 32 8 10 6 12 3 ?
 A) 3 B) 4 C) 5 D) 6 E) 7

23. 5 11 6 13 9 17 14 ?
 A) 17 B) 20 C) 23
 D) 27 E) 38

24. 26 28 7 9 3 ?
 A) 1 B) 2 C) 3
 D) 4 E) 5

25. 2 5 3 8 4 11 5 ? ?
 A) 6,22 B) 14,22 C) 14,6
 D) 15,21 E) 11,5

Yanıtlar / Answers

1. C	5. D	9. E	13. D	17. B	21. D	25. C
2. C	6. C	10. C	14. C	18. D	22. C	
3. D	7. C	11. A	15. E	19. E	23. C	
4. D	8. B	12. A	16. A	20. E	24. E	

1. I. 8 8 9 11 ? 18
 II. 9 10 12 15 ? 24
 A) 20, 17 B) 20, 14 C) 18, 13
 D) 14, 15 E) 14, 19

2. I. 2, 4, 8, 16
 II. 6, 12, 24, 48
 III. 3, 9, 27, 81
 IV. ? ? ? ?
 A) 5, 10, 20, 40
 B) 4, 12, 36, 108
 C) 7, 14, 28, 46
 D) 5, 7, 9, 11
 E) 7, 21, 36, 52

3. I. 2 +1 3 4 5 6
 II. 7 +1 10 13 16 19
 III. 95 -1 90 85 80 75
 IV. ? -2 ? ? ? ?
 A) 7 12 22 27 37
 B) 90 97 104 111 118
 C) 90 95 100 105 110
 D) 87 80 73 66 59
 E) 5 12 19 26 33

4. I. 0 10 2 8 4
 II. 20 24 18 26 16
 III. 100 120 102 118 104
 IV. ? ? ? ? ?
 A) 120, 134 118, 136 116
 B) 120 106 122 104 124
 C) 120 140 122 138 124
 D) 120 100 118 102 116
 E) 120 90 80 70 60

5. I. 2 4 8 16 32
 II. 2 6 14 30 62
 III. 7 18 40 84 172
 IV. ? ? ? ? ?
 A) 1 5 13 29 61
 B) 7 13 25 49 97
 C) 7 11 19 35 67
 D) 3 6 12 24 48
 E) 1 8 22 50 106

6. ve 10. sorulardaki sayı dizileri farklı birer kurala göre dizilmiştir. Bu dizilerin herbirinde kurala uymayan bir sayı vardır. Bu sayıyı bulunuz.

In questions 6 to 10, every number serie are ordered according to a different rule. But in each number serie, there is a number which is writing wrong. Find the wrong number in each number serie.

6. $\begin{matrix} +7 & +8 & +9 & +10 & +11 \\ 1 & 8 & 16 & 25 & 35 & 46 & 50 \end{matrix}$
 A) 7 B) 16 C) 27 D) 43 E) 50

7. $\begin{matrix} 4 & 10 & 2 & 15 & 19 & 23 & 27 \\ 1 & 4 & 14 & 22 & 37 & 56 & 79 & 106 \end{matrix}$
 A) 1 B) 4 C) 14 D) 56 E) 79

8. $\begin{matrix} -1 & -2 & -3 & -4 & -5 \\ 22 & 25 & 20 & 23 & 18 & 20 & 16 & 19 \end{matrix}$
 A) 23 B) 20 C) 18 D) 16 E) 19

9. $\begin{matrix} +3 & +5 & +7 & +9 \\ 2 & 5 & 10 & 17 & 25 \end{matrix}$
 A) 2 B) 5 C) 10 D) 17 E) 25

10. 20 40 60 120 140 280 320
A) 40 B) 60 C) 140 D) 280 E) 320

11. 6 7 ? 9 2 11 0 13
A) 4 B) 7 C) 13 D) 16 E) 17

12. 3 4 8 11 44 49 294 ?
A) 46 B) 151 C) 196 D) 245 E) 301

13. 4 ? 6 30 10 15 12 60 20
A) 3 B) 6 C) 4 D) 5 E) 9

14. 115 122 ? 112 95 102 85 92
A) 105 B) 120 C) 85 D) 125 E) 75

15. 111 122 101 132 91 142 81 ?
A) 152 B) 103 C) 90 D) 91 E) 80

16. 60 30 32 16 18 9 ?
A) 3 B) 7 C) 11 D) 15 E) 19

17. 40 4 20 100 10 1 5 ?
A) 15 B) 12 C) 25 D) 16 E) 40

18. 3 15 10 2 7 35 30 ?
A) 8 B) 9 C) 12 D) 33 E) 6

19. 127 120 121 112 115 ? 109 96 103
A) 111 B) 125 C) 115 D) 104 E) 108

20. 2 5 0 7 2 13 ?
A) 1 B) 2 C) 4 D) 6 E) 8

21. 117 110 101 90 97 106 117 110 ?
A) 101 B) 100 C) 80 D) 67 E) 20

Yanıtlar / Answers

1. E	4. A	7. C	10. E	13. E	16. C	19. D
2. B	5. E	8. B	11. A	14. A	17. C	20. E
3. D	6. E	9. E	12. E	15. A	18. E	21. A

1. 1 2 3 6 12 24 ?
A) 48 B) 96 C) 108 D) 124 E) 138

2. I. 5 12 13
II. 3 4 5
III. 7 24 25
IV. 8 15 ?
A) 15 B) 16 C) 17 D) 18 E) 19

3. $\frac{2}{3}$ $\frac{5}{8}$ $\frac{14}{23}$ $\frac{x}{68}$ $\frac{122}{203} \Rightarrow x = ?$
A) 28 B) 32 C) 37 D) 41 E) 43

4. I. 5 14 23 32
II. 5 12 19 26
III. 5 10 15 20
IV. ?
A) 5 7 9 12
B) 5 8 10 14
C) 5 8 11 14
D) 5 8 12 16
E) 5 8 10 16

5. I. 38 34 40 36 42
II. 20 24 18 22 16
III. 39 32 34 27 29
IV. ? ? ? ? ?
A) 18 25 23 30 28
B) 40 37 38 31 27
C) 10 17 15 21 19
D) 27 34 32 39 38
E) 41 43 40 42 39

6. I. 27 24 25 22 23
II. 30 33 32 35 34
III. 35 40 38 43 41
IV. ? ? ? ? ?
A) 20 22 27 25 30
B) 58 53 51 46 48
C) 29 24 26 24 26
D) 48 53 51 56 54
E) 48 43 45 40 42

7. I. 2 9 8 15 14 21 20
II. 35 28 29 22 23 16 17
III. 20 16 18 14 16 12 14
IV. ? ? ? ? ? ? ?
A) 18 14 21 20 15 8 5
B) 12 14 11 13 7 12 8
C) 28 16 18 14 16 12 14
D) 35 12 13 24 11 12 15
E) 10 14 12 16 14 18 16

8. I. 6 3 7 4 8 5 9
II. 10 13 9 12 8 11 7
III. 7 6 8 7 9 8 10
IV. ? ? ? ? ? ? ?
A) 11 10 12 11 13 12 14
B) 13 14 12 13 11 12 10
C) 12 10 13 11 14 12 15
D) 15 13 14 12 13 11 12
E) 7 10 6 9 5 8 4

9.	I.	4	7	14	17	34	37
	II.	2	5	15	18	54	57
	III.	1	4	16	19	76	79
	IV.	?	?	?	?	?	?
	A)	1	4	16	19	76	79
	B)	2	5	15	18	54	57
	C)	3	6	18	21	63	66
	D)	2	5	15	18	54	57
	E)	1	4	20	23	115	118

10.	I.	4	8	7	14	13	26	25
	II.	3	6	4	8	6	12	10
	III.	5	10	7	14	11	22	19
	IV.	?	?	?	?	?	?	?
	A)	6	12	11	22	21	42	41
	B)	5	10	6	12	8	16	12
	C)	7	14	12	24	22	44	42
	D)	8	16	11	22	17	34	29
	E)	3	6	3	6	3	6	3

11.	I.	6	8	4	6	3	5	5/2
	II.	5	3	6	4	8	6	12
	III.	6	9	3	6	2	5	5/3
	IV.	?	?	?	?	?	?	?
	A)	5	15	12	36	30	90	93
	B)	5	8	24	27	81	84	252
	C)	5	2	6	4	12	10	30
	D)	5	2	6	18	15	45	42
	E)	5	2	6	3	9	6	18

12.	I.	46	23	22	11	10	5
	II.	62	31	30	15	14	7
	III.	86	43	42	21	20	10
	IV.	?	?	?	?	?	?
	A)	34	17	14	7	4	2
	B)	55	54	27	24	12	11
	C)	94	47	46	23	22	11
	D)	74	37	34	17	14	7
	E)	28	14	12	6	4	2

13.	I.	16	32	8	16	4	8	2
	II.	8	6	10	8	12	10	14
	III.	10	40	20	80	40	160	80
	IV.	?	?	?	?	?	?	?
	A)	20	80	40	160	80	320	80
	B)	20	18	22	20	24	22	26
	C)	20	16	18	14	16	12	14
	D)	20	16	32	28	56	52	104
	E)	20	24	12	16	8	12	6

14.	I.	4	1	3	0	0	-3
	II.	4	12	9	27	24	72
	III.	144	48	54	18	24	8
	IV.	?	?	?	?	?	?
	A)	6	3	10	5	12	6
	B)	72	18	24	6	12	3
	C)	6	13	20	10	5	12
	D)	129	43	48	16	21	7
	E)	12	18	6	12	4	10

15.	I.	3	1	4	2	5	3	6
	II.	3	6	4	7	5	8	6
	III.	3	0	4	1	5	2	6
	IV.	?	?	?	?	?	?	?
	A)	3	12	14	56	48	232	234
	B)	3	6	10	20	24	48	52
	C)	3	0	4	1	5	2	6
	D)	3	9	14	42	47	141	146
	E)	4	8	5	9	6	10	7

16.	I.	1	3	7	15	31	63
	II.	2	3	5	9	17	33
	III.	3	3	5	5	7	7
	IV.	?	?	?	?	?	?
	A)	1	3	5	7	9	11
	B)	2	4	6	8	10	12
	C)	4	4	2	2	0	0
	D)	1	1	2	3	5	8
	E)	5	9	17	33	65	129

Yanıtlar / Answers

1. A	4. C	7. E	10. B	13. C	16. C
2. C	5. A	8. B	11. E	14. E	
3. D	6. E	9. E	12. C	15. E	

1. I. 3 12 10 40 38 152
 II. 4 12 9 27 24 72
 III. 144 48 54 18 24 8
 IV. ?
 A) 6 3 10 5 12 6
 B) 72 18 24 6 12 3
 C) 6 13 20 10 5 12
 D) 129 43 48 16 21 7
 E) 15 22 11 18 9 16

2. I. 1 2 6 12 36 72
 II. 1 3 6 18 36 108
 III. 2 4 16 32 128 256
 IV. ?
 A) 2 6 12 36 72 216
 B) 2 4 8 5 10 7
 C) 2 8 16 342 64 128
 D) 2 4 8 16 32 64
 E) 2 8 16 64 128 512

3. I. 2 8 7 12 10 14 11
 II. 14 8 9 4 6 2 5
 III. 10 8 14 10 14 8 10
 IV. ?
 A) 14 6 8 2 6 2 8
 B) 14 22 20 26 22 26 20
 C) 14 20 19 24 22 26 23
 D) 14 12 20 16 22 16 20
 E) 14 16 10 14 10 16 14

4. I. 5 10 12 24 26
 II. 4 12 15 45 48
 III. 2 8 12 48 52
 IV. ?
 A) 3 9 12 35 38
 B) 4 16 20 80 76
 C) 3 15 20 100 105
 D) 3 15 20 25 125
 E) 3 8 40 45 225

5. I. 3 10 31 94
 II. 2 5 11 23
 III. 1 6 26 106
 IV. ?
 A) 1 2 3 4
 B) 4 25 151 907
 C) 7 15 31 63
 D) 6 20 62 188
 E) 1 15 17 53

6. I. 28 61 45 88
 II. 64 97 81 ?
 A) 120 B) 121 C) 122 D) 123 E) 124

7. I. II. III. IV.
 124 186 91 246
 46 68 33 ?
 A) 86 B) 88 C) 90 D) 92 E) 94

8. ve 12. sorularda verilen ilk üç sayı arasındaki kural cevap şıklarındaki hangi üç sayı arasında vardır?

In questions 8 – 12, the rule is given between the first three numbers. Find the numbers which are the same rule.

8. 14 - 16 = 2 (60)
 A) 14 48 (96)
 B) 28 14 (42)
 C) 28 12 (64)
 D) 10 32 (11)
 E) 12 18 (180)

$$14 + 12 = 26 \rightarrow 26 \times 2 = 52$$

9. 5 + 2 7 (47)
 A) 12 7 (48)
 B) 3 7 (58)
 C) 12 5 (102)
 D) 2 5 (26)
 E) 7 9 (79)

10. 2 8 (62)
 A) 4 8 (42)
 B) 5 7 (58)
 C) 12 5 (102)
 D) 2 5 (23)
 E) 7 9 (83)

11. 5 6 41
 A) 7 6 (49)
 B) 6 4 (39)
 C) 6 7 (86)
 D) 2 3 (13)
 E) 7 5 (32)

12. 2 6 (40)
 A) 5 6 (60)
 B) 2 9 (80)
 C) 6 7 (26)
 D) 2 3 (13)
 E) 7 10 (59)

13. I. II. III.
 2 4 2
 5 9 3
 26 19 4
 677 39 5
 ? ? ?
 A) 457650 78 6
 B) 483674 76 6
 C) 458339 79 6
 D) 458329 74 6
 E) 458330 79 6

14. 1 3 12 60 ?
 A) 98 B) 101 C) 105
 D) 240 E) 360

15. I. 2 3 7
 II. 5 12 13
 III. 17 39 46
 IV. 65 120 205
 V. ? ? ?
 A) 4 24 40
 B) 10 16 320
 C) 20 8 4
 D) 40 16 8
 E) 80 16 384

16. I. 12 5 34
 II. 18 7 50
 III. 33 12 90
 IV. 72 25 ?
 A) 33 B) 35 C) 55 D) 116 E) 194

17. I. 3 6 18 21 63
 II. 5 9 36 40 160
 III. 7 12 60 65 325
 IV. ? ? ? ? ?
 A) 6 10 40 44 176
 B) 5 10 20 25 50
 C) 5 10 15 45 255
 D) 5 11 66 72 432
 E) 5 10 20 60 65

Yanıtlar / Answers

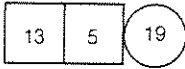
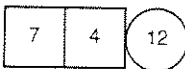
1. A	4. C	7. B	10. D	13. E	16. E
2. E	5. D	8. E	11. E	14. E	17. D
3. E	6. E	9. E	12. D	15. E	

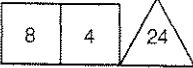
SAYI ŞEKİL İLİŞKİLERİ NUMBER FIGURE RELATIONS

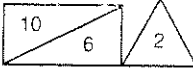
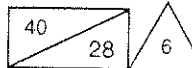
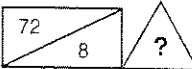
BÖLÜM 5 CHAPTER 5

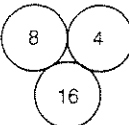
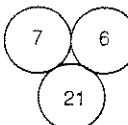
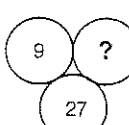
Sayı Şekil İlişkileri / Number Figure Relations

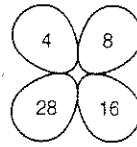
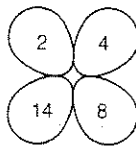
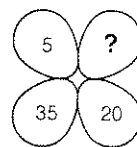
Test 1

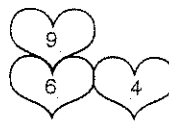
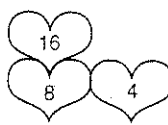
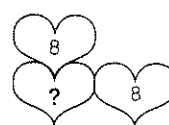
1. I.  II. 
III. 
A) 10 B) 11 C) 12 D) 13 E) 14

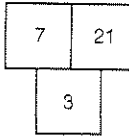
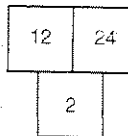
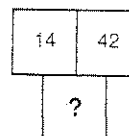
2. I.  II. 
III. 
A) 40 B) 42 C) 44 D) 46 E) 48

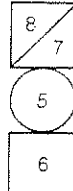
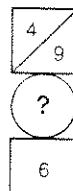
3. I.  II. 
III. 
A) 32 B) 34 C) 36 D) 38 E) 40

4. I.  II.  III. 
A) 5 B) 6 C) 7 D) 8 E) 9

5. I.  II.  III. 
A) 9 B) 10 C) 11 D) 12 E) 13

6. I.  II.  III. 
A) 7 B) 8 C) 9 D) 10 E) 11

7. I.  II.  III. 
A) 2 B) 3 C) 4 D) 5 E) 6

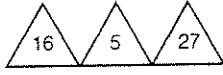
8. I.  II.  III. 
A) 1 B) 2 C) 3 D) 4 E) 5

9.

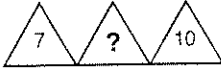
I.



II.



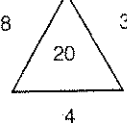
III.



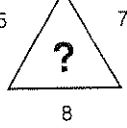
- A) 4 B) 5 C) 6 D) 7 E) 8

10.

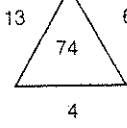
I.



II.



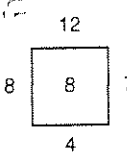
III.



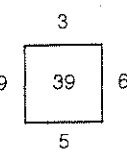
- A) 24 B) 25 C) 26 D) 27 E) 28

11.

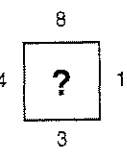
I.



II.



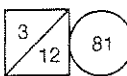
III.



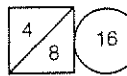
- A) 40 B) 41 C) 42 D) 43 E) 44

12.

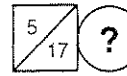
I.



II.



III.



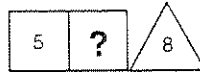
- A) 100 B) 121 C) 144 D) 169 E) 196

13.

I.



II.



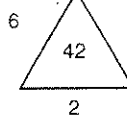
III.



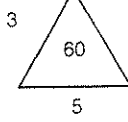
- A) 3 B) 4 C) 5 D) 6 E) 7

14.

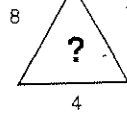
I.



II.



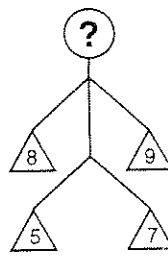
III.



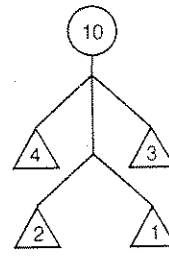
- A) 110 B) 112 C) 114 D) 117 E) 118

15.

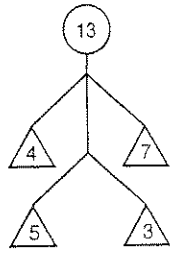
I.



II.



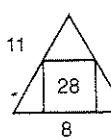
III.



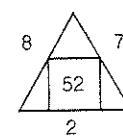
- A) 34 B) 37 C) 39 D) 41 E) 43

16.

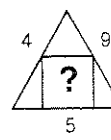
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II.



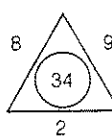
III.



- A) 24 B) 25 C) 26 D) 27 E) 28

17.

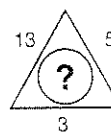
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II.



III.

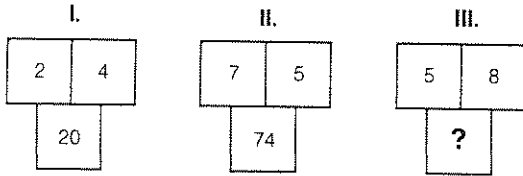


- A) 51 B) 52 C) 53 D) 54 E) 55

Yanıtlar / Answers

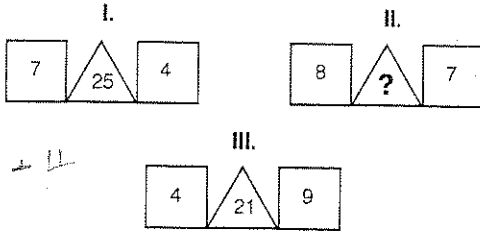
1. E	4. B	7. B	10. D	13. A	16. C
2. C	5. B	8. C	11. E	14. B	17. D
3. A	6. B	9. A	12. C	15. B	

1.



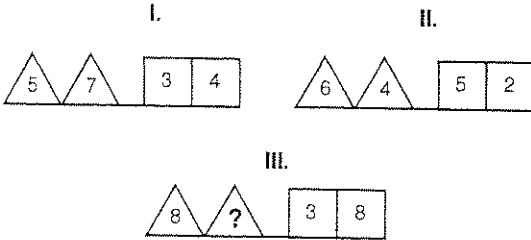
- A) 87 B) 88 C) 89 D) 90 E) 91

2.



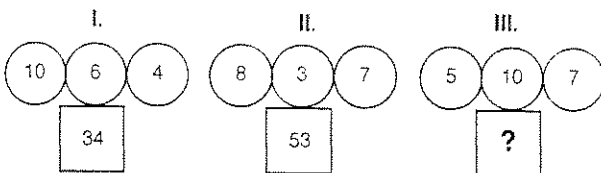
- A) 30 B) 31 C) 32 D) 33 E) 34

3.



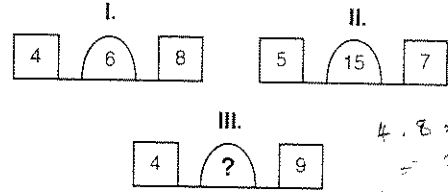
- A) 15 B) 16 C) 17 D) 18 E) 19

4.



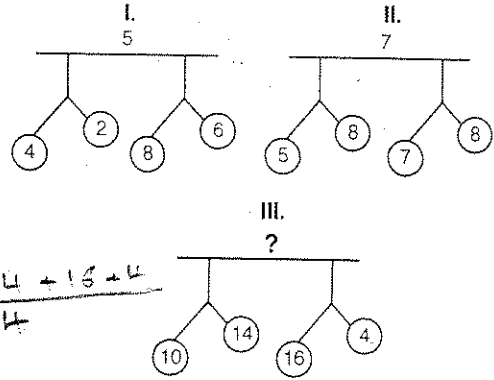
- A) 20 B) 22 C) 25 D) 27 E) 28

5.



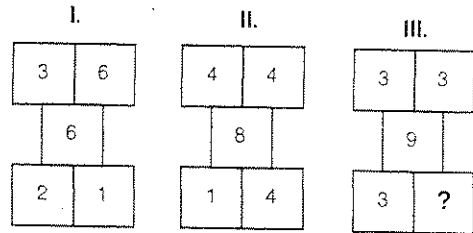
- A) 15 B) 16 C) 17 D) 18 E) 19

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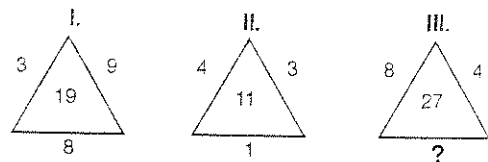
- A) 11 B) 12 C) 13 D) 14 E) 15

7.



- A) 1 B) 2 C) 3 D) 4 E) 5

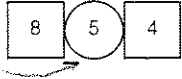
8.



- A) 4 B) 5 C) 6 D) 7 E) 8

9.

I.



II.



III.



IV.

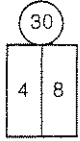


- A) 10 B) 11 C) 14 D) 8 E) 6

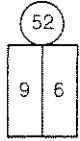
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10.

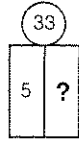
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II.



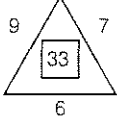
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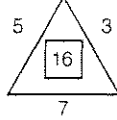
- A) 5 B) 6 C) 7 D) 8 E) 9

11.

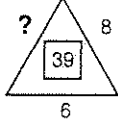
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II.

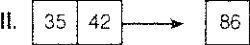


III.



- A) 5 B) 7 C) 9 D) 11 E) 12

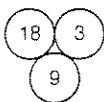
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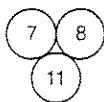
- A) 78 B) 79 C) 80 D) 81 E) 82

13.

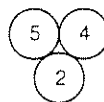
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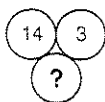
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III.



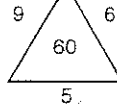
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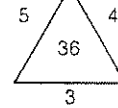
- A) 4 B) 6 C) 9 D) 10 E) 12

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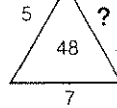
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II.



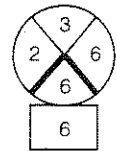
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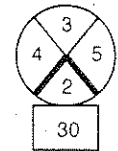
- A) 4 B) 6 C) 8 D) 10 E) 12

15.

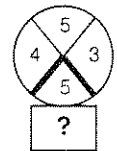
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II.



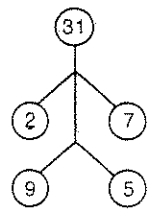
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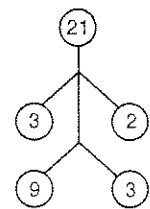
- A) 10 B) 12 C) 14 D) 16 E) 18

16.

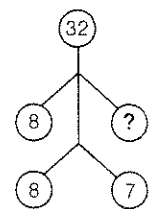
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II.



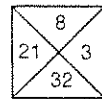
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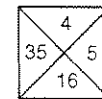
- A) 1 B) 2 C) 3 D) 5 E) 7

17.

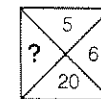
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II.



III.

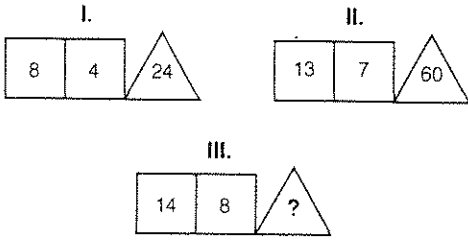


- A) 39 B) 40 C) 41 D) 42 E) 43

Yanıtlar / Answers

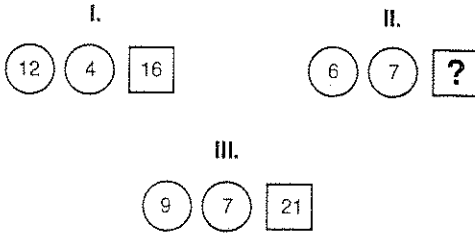
1. C	4. C	7. C	10. C	13. B	16. C
2. B	5. D	8. B	11. C	14. A	17. D
3. B	6. A	9. B	12. B	15. B	

1.



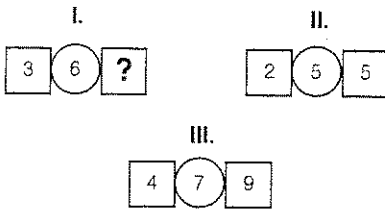
- A) 62 B) 64 C) 66 D) 68 E) 70

2.



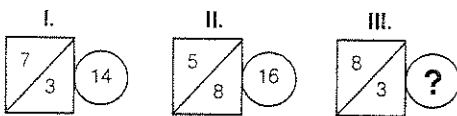
- A) 10 B) 11 C) 12 D) 13 E) 14

3.



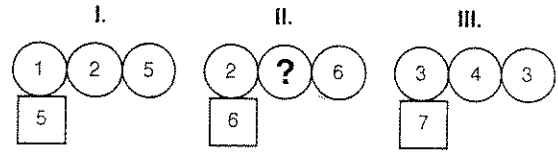
- A) 1 B) 2 C) 5 D) 6 E) 8

4.



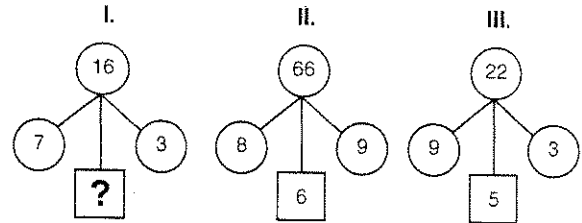
- A) 15 B) 16 C) 17 D) 18 E) 19

5.



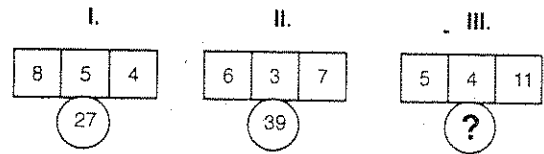
- A) 1 B) 2 C) 3 D) 4 E) 5

6.



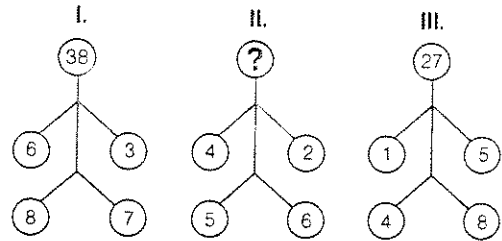
- A) 5 B) 7 C) 9 D) 11 E) 13

7.



- A) 50 B) 51 C) 52 D) 53 E) 54

8.



- A) 20 B) 22 C) 24 D) 26 E) 28

9. I. II. III.
-
- A) 1 B) 2 C) 3 D) 4 E) 5

10. I. II. III.
-
- A) 8 B) 9 C) 10 D) 11 E) 12

11. I. II. III.
-
- A) 10 B) 12 C) 14 D) 16 E) 18

12. I. II. III.
-
- A) 124 B) 125 C) 126 D) 127 E) 128

13. I. II. III.
-
- A) 70 B) 71 C) 72 D) 73 E) 74

14. I. II. III.
-
- A) 10 B) 11 C) 12 D) 13 E) 14

15. I. II. III.
-
- A) 9 B) 10 C) 11 D) 12 E) 13

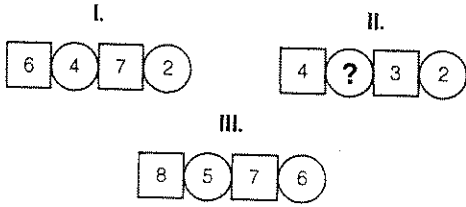
16. I. II. III.
-
- A) 2 B) 4 C) 6 D) 8 E) 10

17. I. II. III.
-
- A) 95 B) 97 C) 99 D) 101 E) 103

18. I. II. III.
-
- A) 12 B) 13 C) 14 D) 15 E) 16

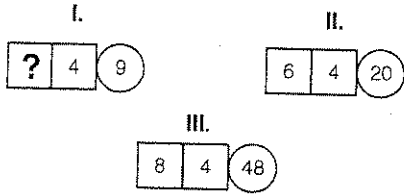
Yanıtlar / Answers					
1. C	4. B	7. B	10. B	13. B	16. D
2. E	5. A	8. B	11. B	14. D	17. B
3. D	6. A	9. C	12. A	15. A	18. B

1.



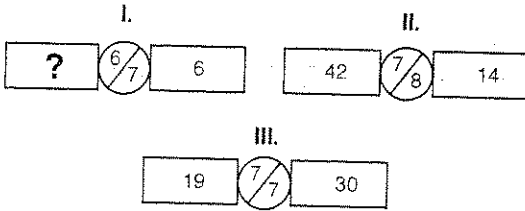
- A) 1 B) 2 C) 3 D) 4 E) 5

2.



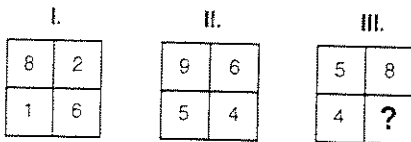
- A) 5 B) 4 C) 3 D) 2 E) 1

3.



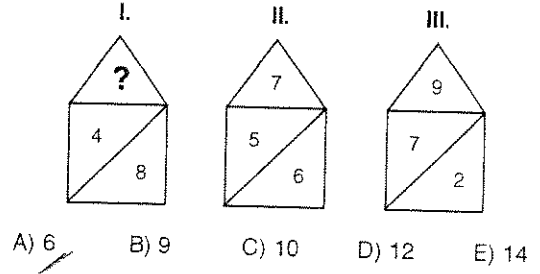
- A) 25 B) 36 C) 49 D) 64 E) 81

4.

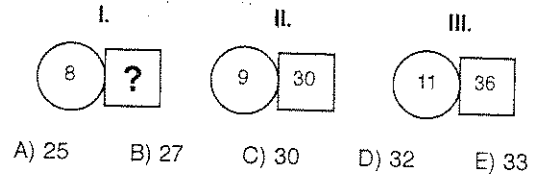


- A) 0 B) 1 C) 2 D) 3 E) 4

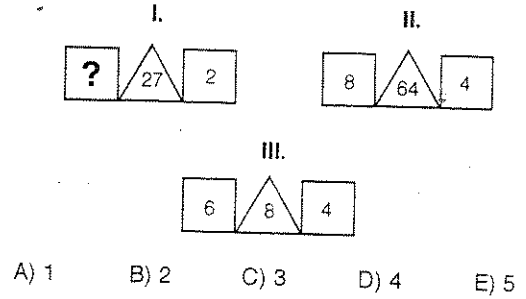
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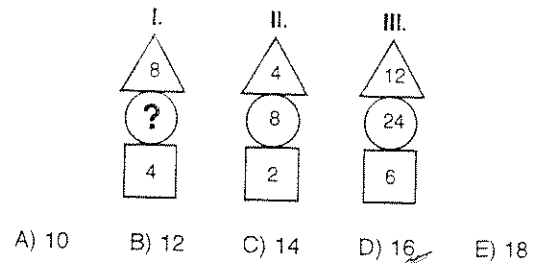
6.



7.



8.



9. I. II. III.
-
- A) 36 B) 49 C) 64 D) 81 E) 121

10. I. II. III.
-
- A) 20 B) 21 C) 22 D) 23 E) 24

11. I. II. III.
-
- A) 4 B) 5 C) 6 D) 7 E) 9

12. I. II. III.
-
- A) 6 B) 9 C) 10 D) 12 E) 14

13. I. II. III.
-
- A) 15 B) 17 C) 19 D) 21 E) 23

14. I. II. III.
-
- A) 40 B) 42 C) 44 D) 46 E) 49

15. I. II. III.
-
- A) 10 B) 12 C) 14 D) 16 E) 18

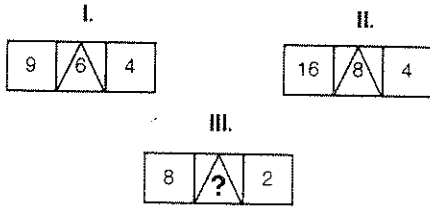
16. I. II. III.
-
- A) 20 B) 21 C) 22 D) 23 E) 24

17. I. II. III.
-
- A) 2 B) 3 C) 4 D) 5 E) 6

18. I. II. III.
-
- A) 6 B) 8 C) 10 D) 12 E) 14

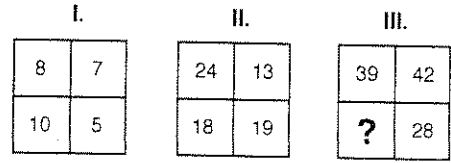
Yanıtlar / Answers					
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2. A	5. A	8. D	11. A	14. B	17. A
3. B	6. B	9. B	12. A	15. D	18. B

1.



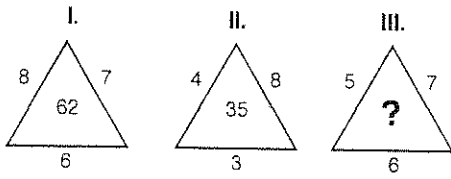
- A) 1 B) 2 C) 3 D) 4 E) 5

5.



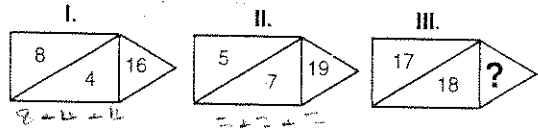
- A) 50 B) 51 C) 52 D) 53 E) 54

2.



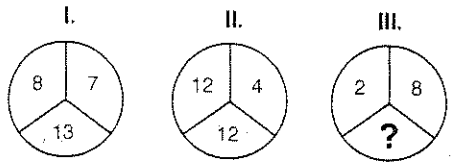
- A) 39 B) 40 C) 41 D) 42 E) 43

6.



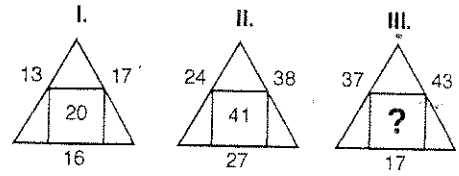
- A) 48 B) 49 C) 50 D) 51 E) 53

3.



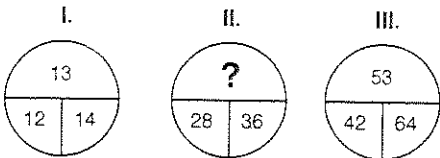
- A) 14 B) 15 C) 16 D) 17 E) 18

7.



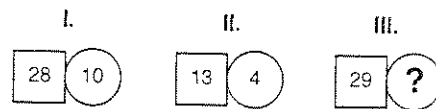
- A) 19 B) 20 C) 21 D) 22 E) 23

4.



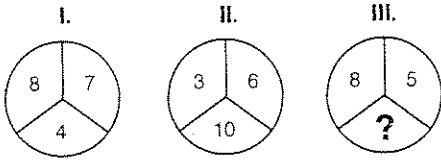
- A) 30 B) 31 C) 32 D) 34 E) 35

8.



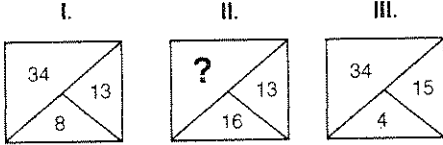
- A) 10 B) 11 C) 12 D) 13 E) 14

9.



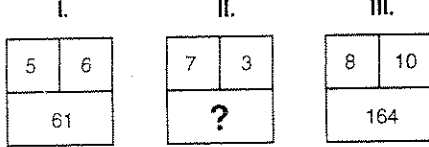
- A) 4 B) 3 C) 6 D) 7 E) 8

10.



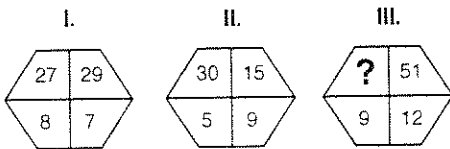
- A) 40 B) 41 C) 42 D) 43 E) 44

11.



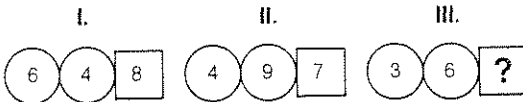
- A) 55 B) 56 C) 57 D) 58 E) 59

12.



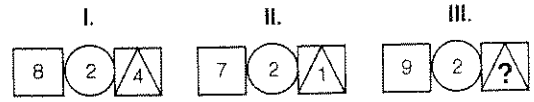
- A) 57 B) 58 C) 59 D) 60 E) 61

13.



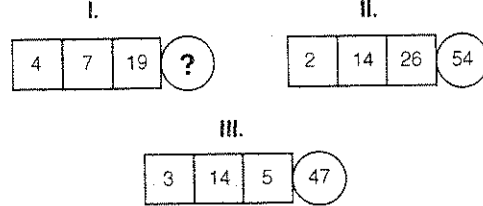
- A) 2 B) 3 C) 4 D) 5 E) 6

14.



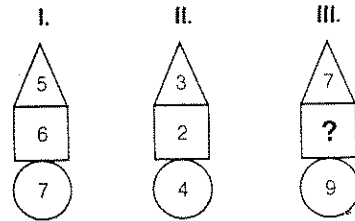
- A) 6 B) 7 C) 8 D) 9 E) 10

15.



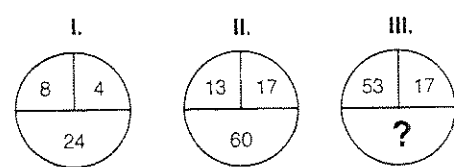
- A) 48 B) 47 C) 46 D) 45 E) 44

16.



- A) 0 B) 1 C) 2 D) 3 E) 4

17.

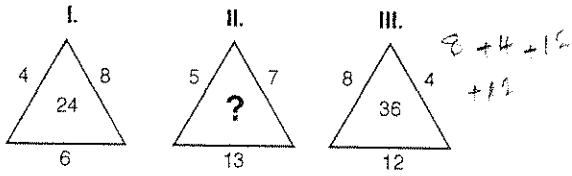


- A) 130 B) 140 C) 150 D) 160 E) 170

Yanıtlar / Answers

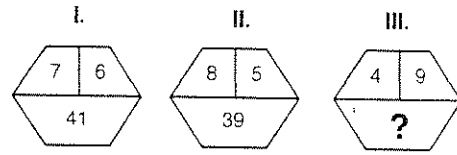
1. D	4. C	7. E	10. C	13. E	16. C
2. C	5. D	8. B	11. D	14. B	17. B
3. E	6. E	9. C	12. A	15. B	

1.



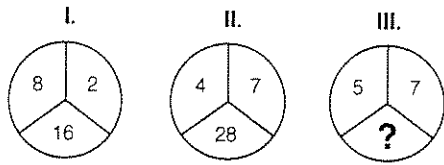
- A) 34 B) 36 C) 38 D) 40 E) 42

5.



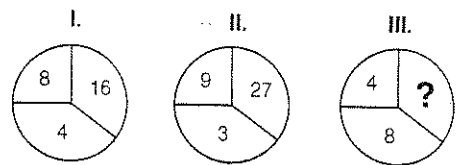
- A) 30 B) 32 C) 34 D) 35 E) 37

2.



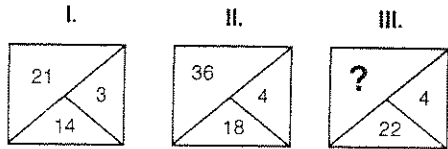
- A) 30 B) 31 C) 33 D) 34 E) 35

6.



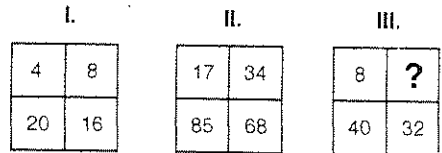
- A) 1 B) 2 C) 3 D) 4 E) 5

3.



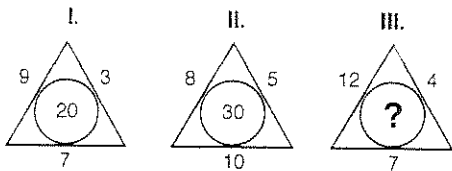
- A) 40 B) 41 C) 42 D) 43 E) 44

7.



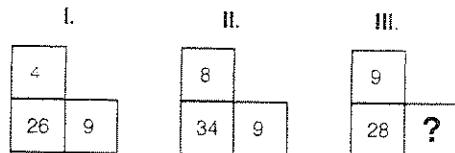
- A) 14 B) 15 C) 16 D) 17 E) 18

4.



- A) 40 B) 41 C) 42 D) 43 E) 44

8.



- A) 1 B) 2 C) 3 D) 4 E) 5

9. I. II. III.
- I. 4 44 7 II. 8 56 6 III. 15 ? 3
- A) 70 B) 71 C) 72 D) 73 E) 74

10. I. II. III.
- I. 8 14 42 7 II. 9 8 ? 6 III. 5 12 48 12
- A) 42 B) 43 C) 44 D) 45 E) 46

11. I. II. III.
- I. 4 7 3 8 II. 8 3 5 6 III. 12 14 ? 8
- A) 14 B) 16 C) 18 D) 20 E) 22

12. I. II. III.
- I. 4 5 12 15 II. 8 14 4 7 III. ? 8 9 6
- A) 10 B) 11 C) 12 D) 13 E) 14

13. I. II. III.
- I. 9 6 27 II. 10 6 64 III. 16 14 ?
- A) 4 B) 8 C) 12 D) 14 E) 16

14. I. II. III.
- I. 16 4 8 II. 2 8 4 III. 72 2 ?
- A) 9 B) 11 C) 12 D) 14 E) 16

15. I. II. III.
- I. 30 8 7 2 II. 48 4 12 3 III. ? 9 4 3
- A) 36 B) 37 C) 38 D) 39 E) 40

16. I. II. III.
- I. 9 6 4 II. 16 8 ? III. 72 12 2
- A) 4 B) 5 C) 6 D) 7 E) 8

17. I. II. III.
- I. 169 8 5 II. 144 8 4 III. ? 5 4
- A) 80 B) 81 C) 82 D) 83 E) 84

Yanıtlar / Answers					
1. C	4. B	7. C	10. E	13. B	16. A
2. E	5. D	8. E	11. C	14. C	17. B
3. E	6. B	9. C	12. C	15. D	

1. I. II. III.
- | | | |
|---|----|---|
| 4 | 16 | 8 |
|---|----|---|
- | | | |
|---|----|---|
| 7 | 21 | 6 |
|---|----|---|
- | | | |
|---|---|---|
| 5 | ? | 4 |
|---|---|---|
- A) 7 B) 8 C) 9 D) 10 E) 11

6. I. II. III.
- | | |
|----|---|
| 8 | |
| 64 | 4 |
- | | |
|----|---|
| 5 | |
| 70 | ? |
- | | |
|----|---|
| 4 | |
| 24 | 3 |
- A) 4 B) 5 C) 6 D) 7 E) 8

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2. I. II. III.
- | | |
|----|---|
| 3 | 8 |
| 20 | |
| 4 | |
- | | |
|----|---|
| 4 | 7 |
| 23 | |
| 5 | |
- | | |
|----|----|
| 9 | 12 |
| ? | |
| 17 | |
- A) 87 B) 89 C) 91 D) 93 E) 95

7. I. II. III.
- | | |
|----|----|
| 13 | |
| 8 | 25 |
- | | |
|----|----|
| 14 | |
| 7 | 49 |
- | | |
|----|----|
| 34 | |
| ? | 81 |
- A) 20 B) 22 C) 24 D) 25 E) 26

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3. I. II. III.
- | | |
|---|----|
| 4 | 27 |
|---|----|
- | | |
|---|----|
| 3 | 20 |
|---|----|
- | | |
|---|----|
| ? | 62 |
|---|----|
- A) 7 B) 8 C) 9 D) 10 E) 11

8. I. II. III.
- | | |
|----|----|
| 4 | 16 |
| 64 | |
- | | |
|---|----|
| 7 | 49 |
| ? | |
- | | |
|-----|----|
| 5 | 25 |
| 125 | |
- A) 340 B) 341 C) 342 D) 343 E) 344

4. I. II. III.
- | | | |
|---|---|---|
| 8 | 6 | 4 |
|---|---|---|
- | | | |
|---|---|---|
| 5 | 2 | 5 |
|---|---|---|
- | | | |
|---|---|---|
| 4 | ? | 6 |
|---|---|---|
- A) 0 B) 1 C) 2 D) 3 E) 4

5. I. II. III.
- | | |
|----|---|
| 8 | 5 |
| 24 | |
| 7 | |
- | | |
|----|----|
| 12 | 15 |
| ? | |
| 17 | |
- | | |
|----|---|
| 4 | 8 |
| 29 | |
| 13 | |
- A) 48 B) 49 C) 50 D) 51 E) 52

9. I. II. III.
- | | |
|----|---|
| 4 | 3 |
| 49 | |
- | | |
|-----|---|
| 8 | 5 |
| 169 | |
- | | |
|---|---|
| 8 | 6 |
| ? | |
- A) 190 B) 192 C) 194 D) 196 E) 198

10. I. II. III.
-
- A) 230 B) 240 C) 245 D) 250 E) 260

11. I. II. III.
-
- A) 55 B) 56 C) 57 D) 58 E) 59

12. I. II. III.
-
- A) 1 B) 2 C) 3 D) 4 E) 5

13. I. II. III.
-
- A) 16 B) 17 C) 18 D) 19 E) 20

14. I. II. III.
-
- A) 50 B) 51 C) 52 D) 53 E) 54

15. I. II. III.
-
- A) 1 B) 2 C) 3 D) 4 E) 5

16. I. II. III.
-
- A) 27 B) 28 C) 29 D) 30 E) 31

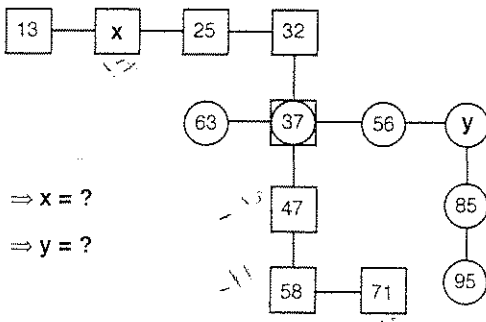
17. I. II. III.
-
- A) 7 B) 8 C) 9 D) 10 E) 11

18. I. II. III.
-
- A) 5 B) 6 C) 7 D) 8 E) 9

Yanıtlar / Answers

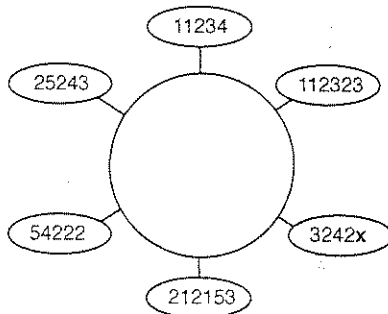
1. D	4. B	7. D	10. B	13. D	16. E
2. C	5. A	8. D	11. D	14. E	17. B
3. C	6. D	9. D	12. D	15. B	18. E

1.


$$\Rightarrow X = ?$$
$$\Rightarrow y = ?$$

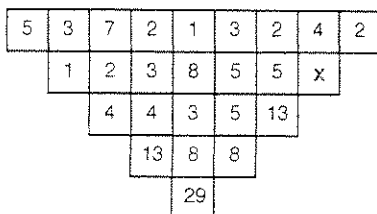
	<u>x</u>	<u>y</u>
A) 17	17	84
B)	16	83
C)	17	83
D)	17	82
E)	18	83

2.


$$\Rightarrow X = ?$$

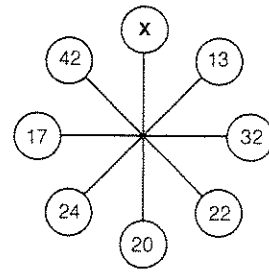
A) 1 B) 2 C) 3 D) 4 E) 5

3.


$$\Rightarrow x = ?$$

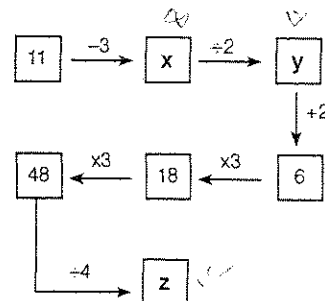
A) 0 B) 1 C) 2 D) 3 E) 5

4.


$$\Rightarrow \mathbf{x} = ?$$

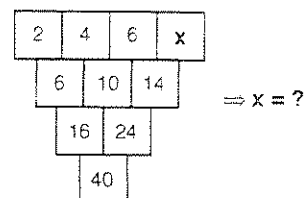
A) 11 B) 12 C) 10 D) 19 E) 13

5.

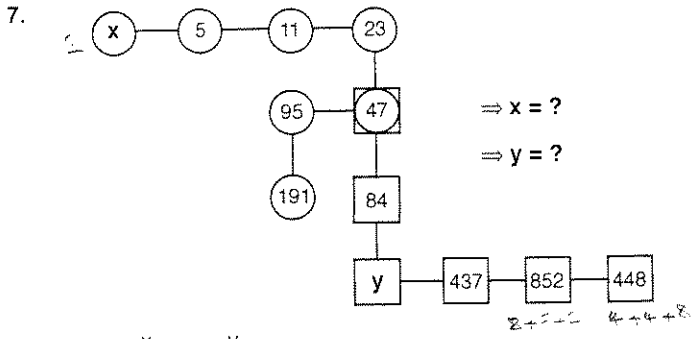

$$\Rightarrow x = ?$$
$$\Rightarrow y = ?$$
$$\Rightarrow z = ?$$

	x	y	z
A) ☒	8	4	12
B) ☐	8	4	11
C) ☐	5	4	12
D) ☐	8	5	12
E) ☐	9	4	12

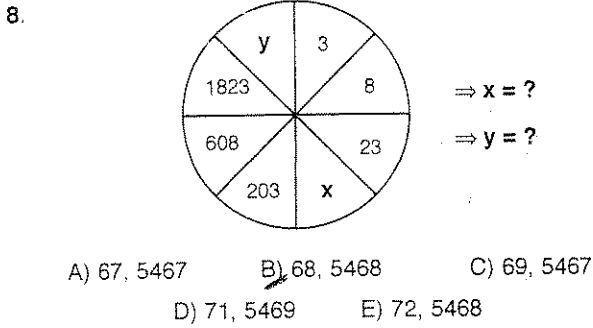
6.


$$\Rightarrow X = ?$$

A) 5 B) 7 C) 8 D) 9 E) 10



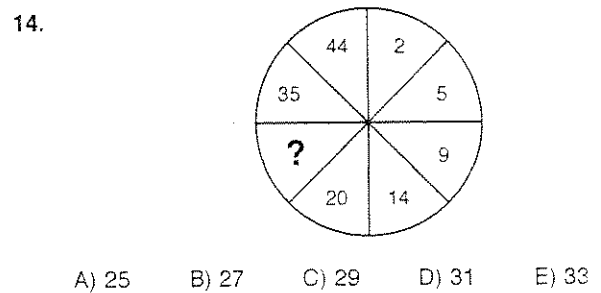
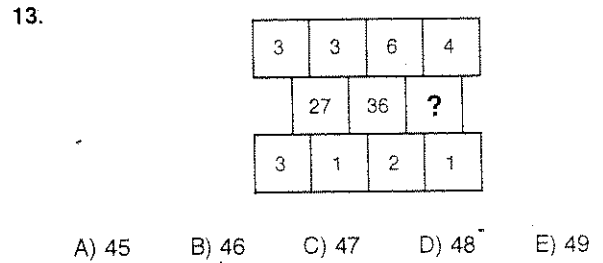
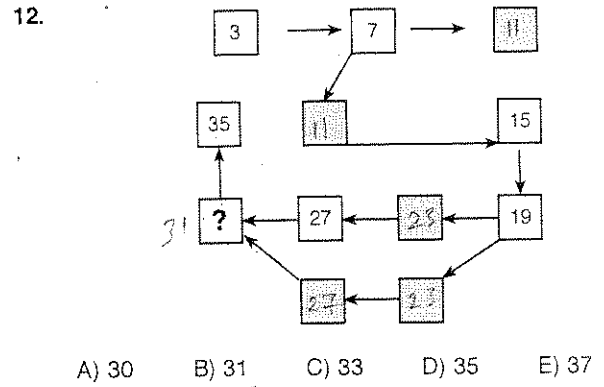
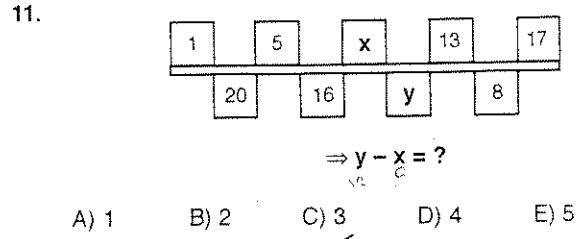
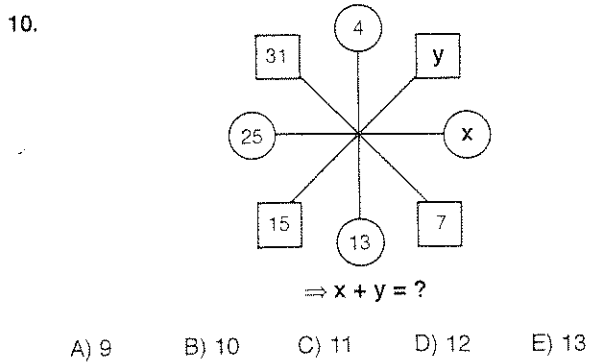
	x	y
A)	2	751
B)	2	752
C)	3	653
D)	3	751
E)	1	752



9.

10	7	9
5	8	6
4	?	13
11		2
12	14	8
3	1	7

A) $\frac{9}{5}$ B) $\frac{3}{7}$ C) $\frac{8}{8}$ D) $\frac{6}{9}$ E) $\frac{7}{7}$



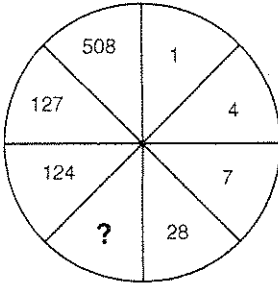
Yanıtlar / Answers				
1. A	4. A	7. A	10. B	13. D
2. B	5. A	8. B	11. C	14. B
3. E	6. C	9. D	12. B	

1.

37	31	43	37	49	43
					55
					?
87	73	61	67	55	61

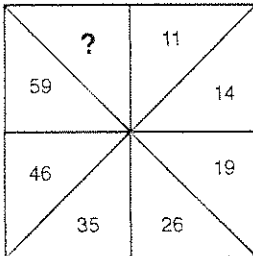
- A) 44 B) 46 C) 49 D) 50 E) 52

2.



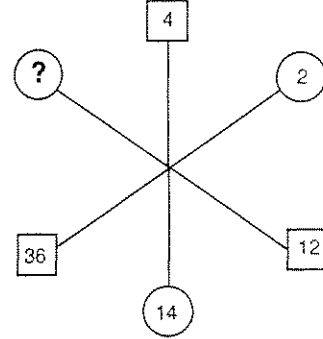
- A) 29 B) 30 C) 31 D) 32 E) 33

3.



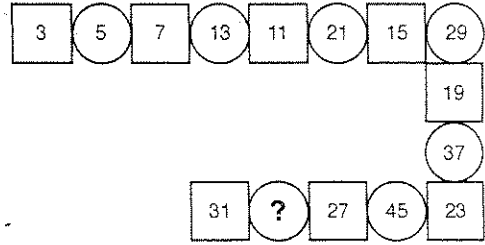
- A) 70 B) 71 C) 72 D) 72 E) 74

4.



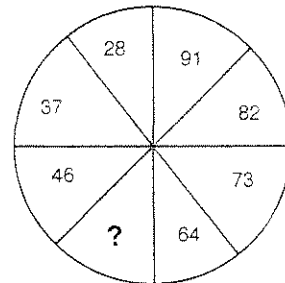
- A) 90 B) 93 C) 95 D) 97 E) 98

5.



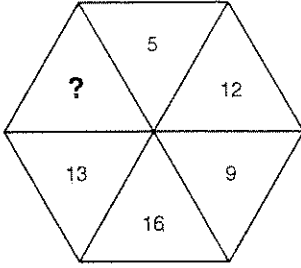
- A) 50 B) 51 C) 52 D) 53 E) 54

6.



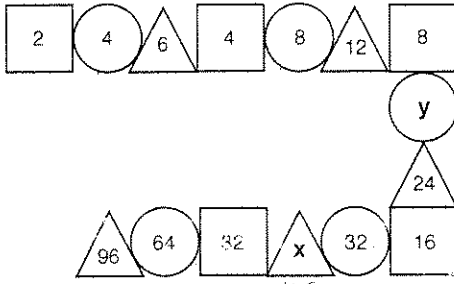
- A) 47 B) 55 C) 58 D) 63 E) 72

7.



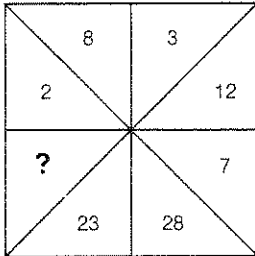
- A) 18 B) 19 C) 20 D) 21 E) 22

8.



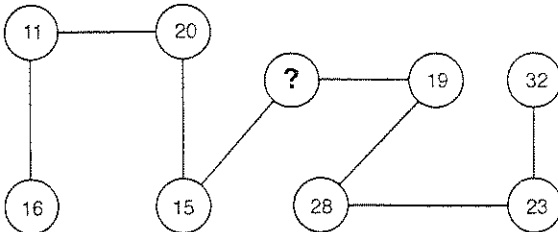
- A) 30 B) 31 C) 32 D) 33 E) 34

9.



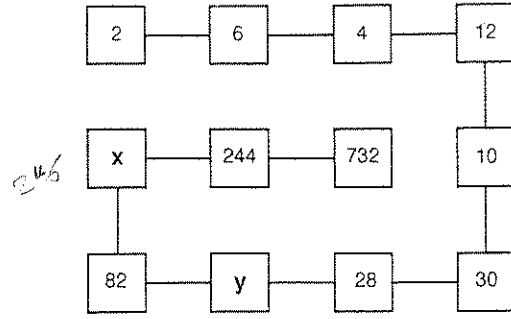
- A) 90 B) 91 C) 92 D) 93 E) 94

10.



- A) 19 B) 23 C) 24 D) 26 E) 27

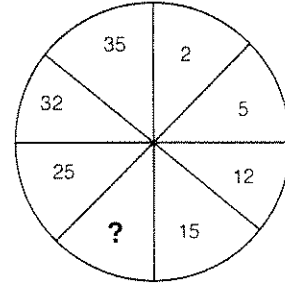
11.



$$\Rightarrow x - y = ?$$

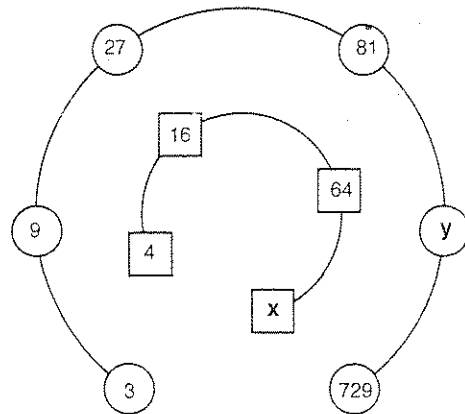
- A) 140 B) 153 C) 162 D) 172 E) 179

12.



- A) 19 B) 20 C) 21 D) 22 E) 23

13.



$$\Rightarrow x - y = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14

Yanıtlar / Answers

1. C	4. E	7. C	10. C	13. D
2. C	5. D	8. C	11. C	
3. E	6. B	9. C	12. D	

1.

3	5	9	15	23	33
					45
					59
135	113	?			75

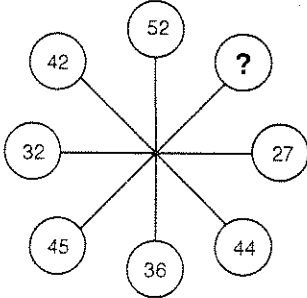
- A) 86 B) 88 C) 90 D) 93 E) 96

2.

2	8	14	20	26	32
10	16	22	?	34	

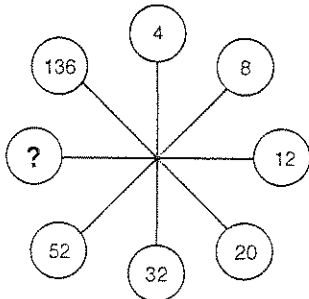
- A) 24 B) 25 C) 26 D) 27 E) 28

3.



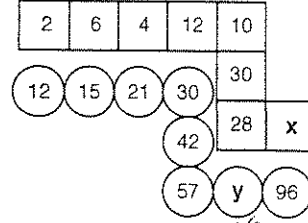
- A) 24 B) 23 C) 44 D) 62 E) 76

4.



- A) 83 B) 84 C) 85 D) 86 E) 87

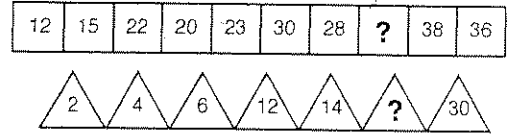
5.



$$\Rightarrow x + y = ?$$

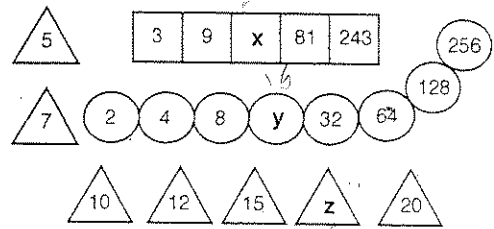
- A) 148 B) 180 C) 155 D) 197 E) 159

6.



- A) 31, 28 B) 32, 27 C) 31, 26 D) 32, 28 E) 31, 29

7.



$$\Rightarrow x + y - z = ?$$

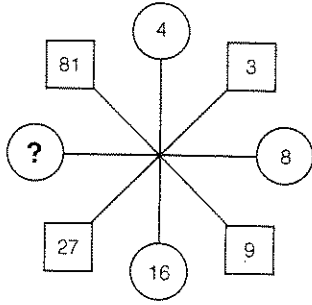
- A) 24 B) 25 C) 26 D) 27 E) 28

8.

18	23	30	35	42	
				47	
83	78	71	?	59	54

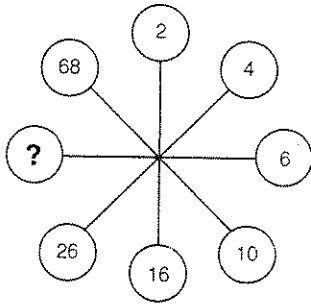
- A) 63 B) 64 C) 65 D) 66 E) 67

9.



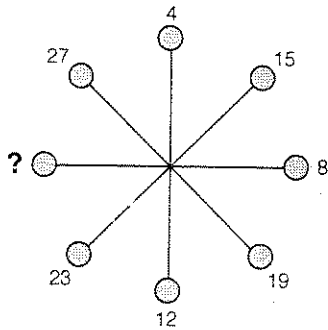
- A) 28 B) 29 C) 30 D) 31 E) 32

10.



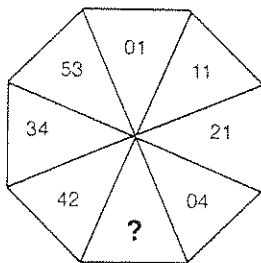
- A) 39 B) 40 C) 41 D) 42 E) 43

11.



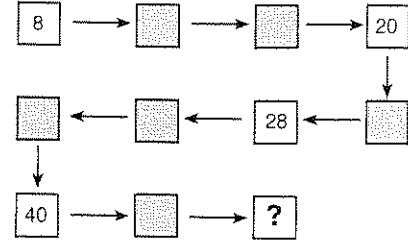
- A) 13 B) 14 C) 15 D) 16 E) 17

12.



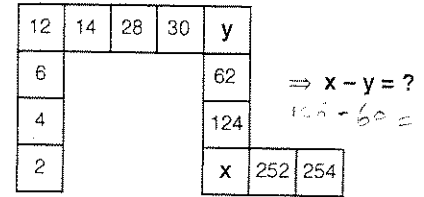
- A) 32 B) 24 C) 52 D) 12 E) 22

13.



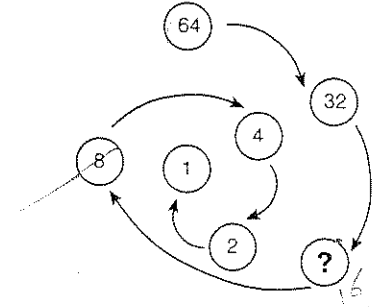
- A) 41 B) 43 C) 47 D) 48 E) 49

14.



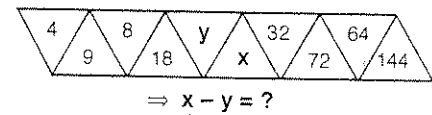
- A) 60 B) 62 C) 64 D) 66 E) 68

15.



- A) 14 B) 16 C) 18 D) 20 E) 22

16.

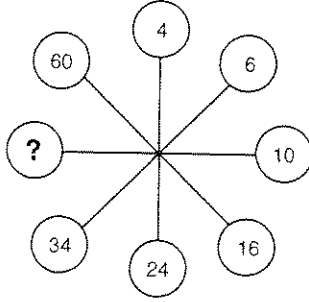


- A) 20 B) 21 C) 22 D) 23 E) 24

Yanıtlar / Answers

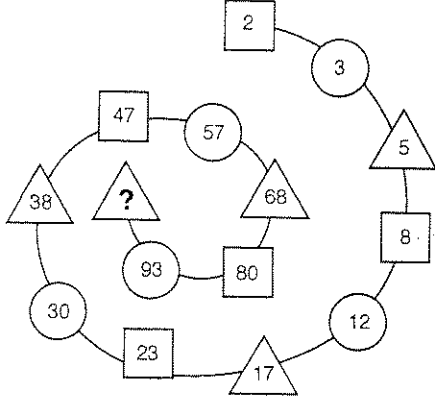
1. D	4. B	7. C	10. D	13. D	16. A
2. E	5. E	8. D	11. D	14. D	
3. D	6. A	9. E	12. A	15. B	

1.



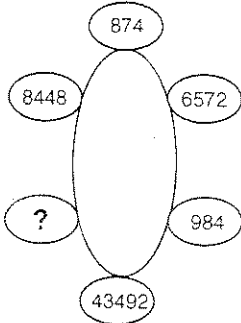
- A) 44 B) 45 C) 46 D) 47 E) 48

2.



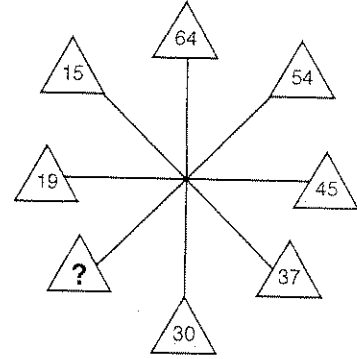
- A) 101 B) 103 C) 104 D) 107 E) 109

3.



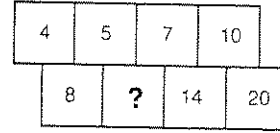
- A) 4388 B) 7435 C) 8243 D) 9930 E) 8883

4.



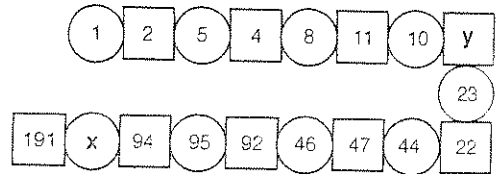
- A) 19 B) 23 C) 24 D) 27 E) 28

5.



- A) 7 B) 8 C) 9 D) 10 E) 11

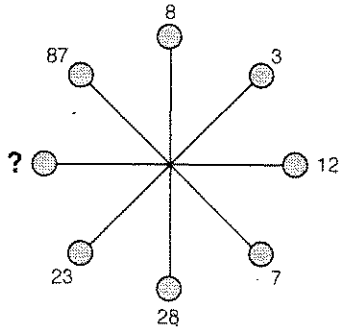
6.



$$\Rightarrow x - y = ?$$

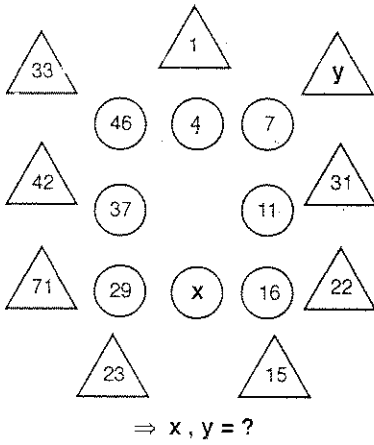
- A) 158 B) 168 C) 172 D) 184 E) 190

7.



- A) 86 B) 87 C) 89 D) 90 E) 92

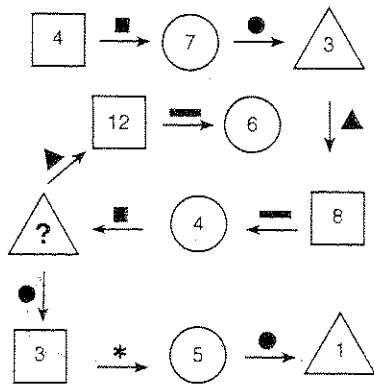
8.



⇒ x, y = ?

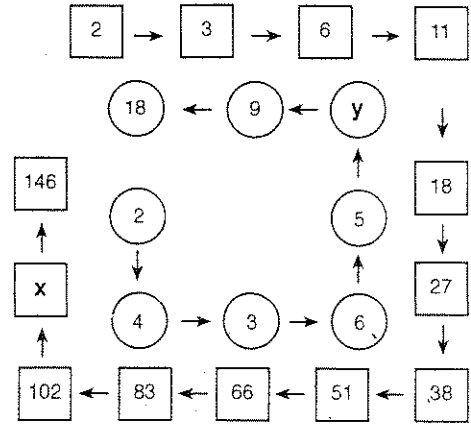
- A) 22, 21 B) 23, 21 C) 24, 22
D) 24, 23 E) 22, 20

9.



- A) 3 B) 5 C) 7 D) 9 E) 11

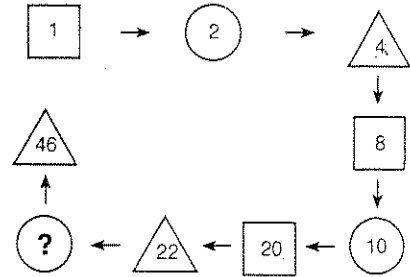
10.



⇒ x, y = ?

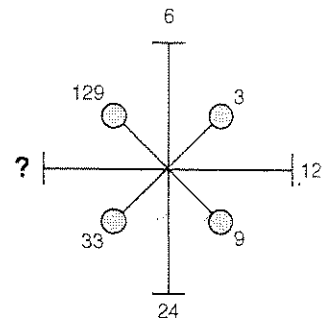
- A) 122, 9 B) 122, 10 C) 123, 10
D) 123, 9 E) 124, 10

11.



- A) 40 B) 41 C) 42 D) 43 E) 44

12.

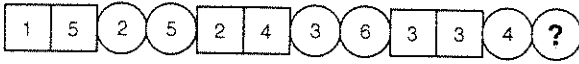


- A) 48 B) 44 C) 40 D) 36 E) 32

Yanıtlar / Answers

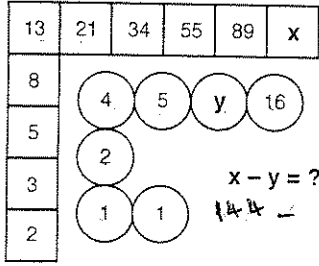
1. C	4. C	7. E	10. C
2. D	5. D	8. A	11. E
3. A	6. B	9. C	12. A

1.



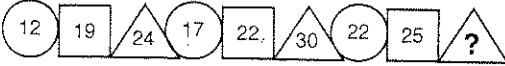
- A) 5 B) 6 C) 9 D) 10 E) 11

2.



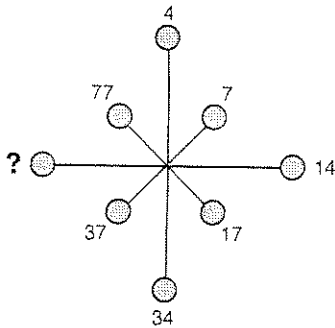
- A) 124 B) 125 C) 126 D) 128 E) 129

3.



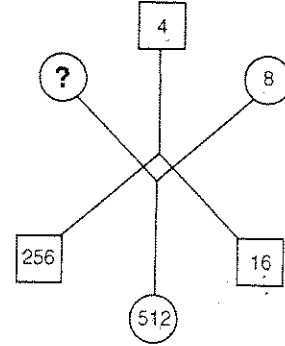
- A) 33 B) 34 C) 35 D) 36 E) 37

4.



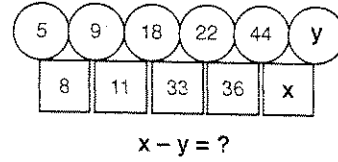
- A) 70 B) 71 C) 72 D) 73 E) 74

5.



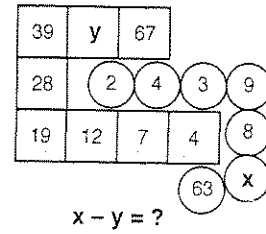
- A) 2 B) 16 C) 64 D) 2048 E) 5096

6.



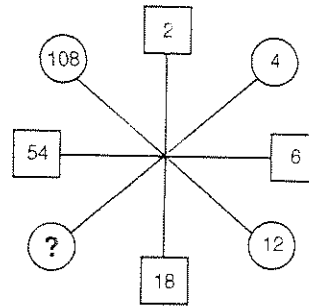
- A) 50 B) 55 C) 60 D) 65 E) 70

7.



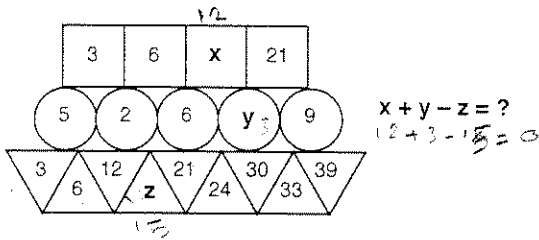
- A) 8 B) 10 C) 11 D) 12 E) 14

8.



- A) 30 B) 34 C) 35 D) 36 E) 38

9.



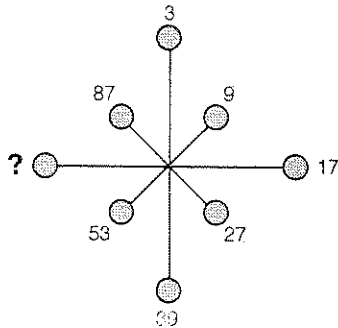
- A) 0 B) 1 C) 2 D) 3 E) 4

10.



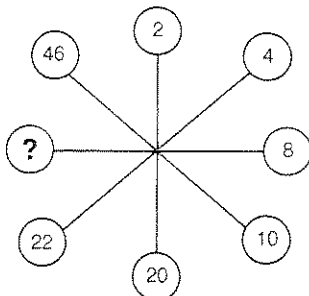
- A) 11 B) 13 C) 16 D) 18 E) 21

11.



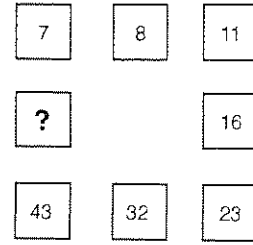
- A) 60 B) 63 C) 66 D) 69 E) 71

12.



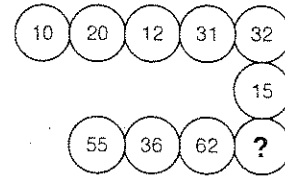
- A) 40 B) 41 C) 42 D) 43 E) 44

13.



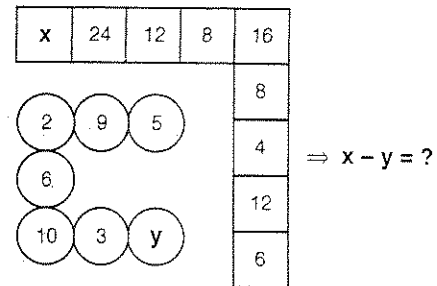
- A) 53 B) 54 C) 55 D) 56 E) 57

14.



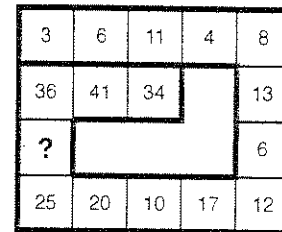
- A) 44 B) 34 C) 42 D) 53 E) 24

15.



- A) 4 B) 5 C) 6 D) 7 E) 8

16.

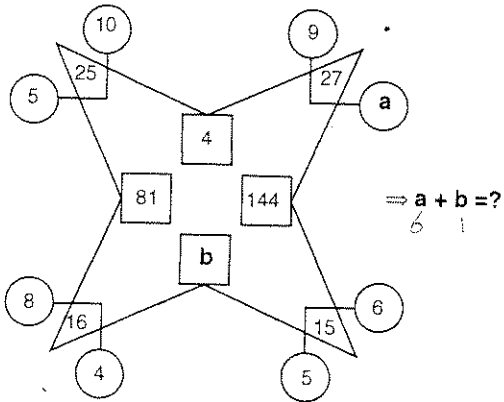


- A) 15 B) 16 C) 18 D) 20 E) 21

Yanıtlar / Answers

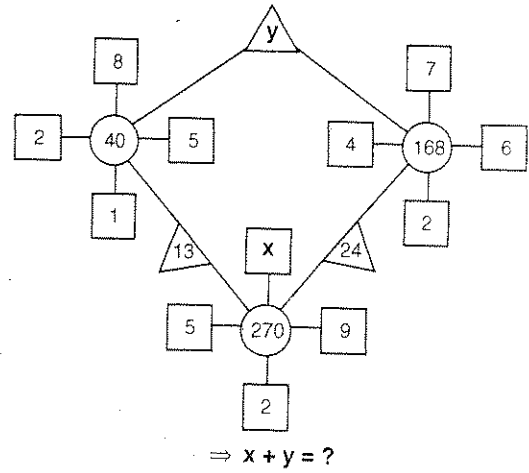
1. C	4. E	7. D	10. D	13. D	16. C
2. E	5. A	8. D	11. D	14. B	
3. D	6. C	9. A	12. E	15. D	

1.



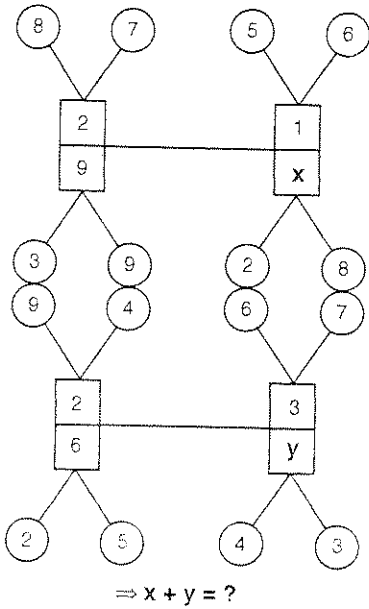
- A) 6 B) 7 C) 8 D) 9 E) 10

3.



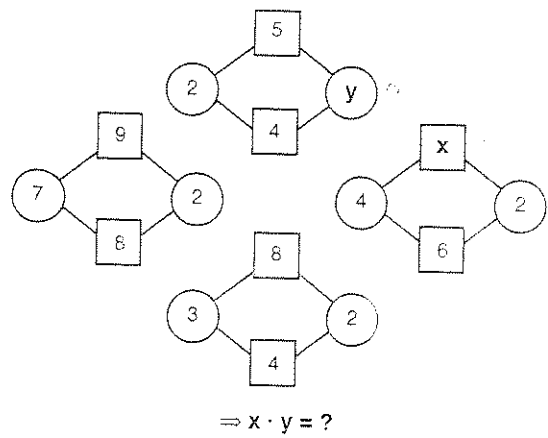
- A) 24 B) 25 C) 26 D) 27 E) 28

2.



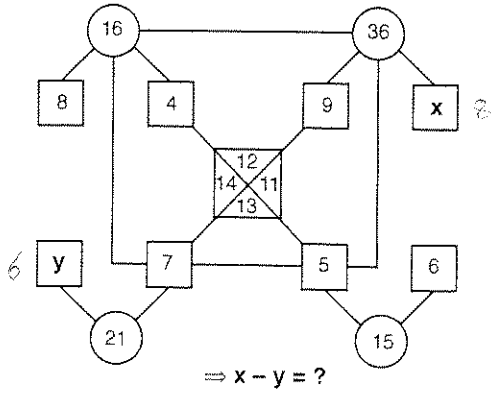
- A) 3 B) 4 C) 5 D) 6 E) 7

4.



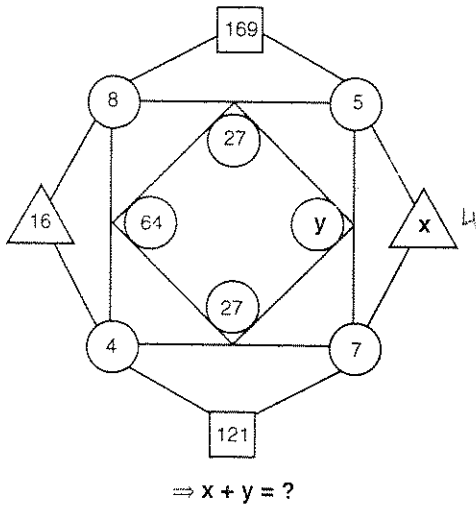
- A) 0 B) 1 C) 2 D) 3 E) 4

5.



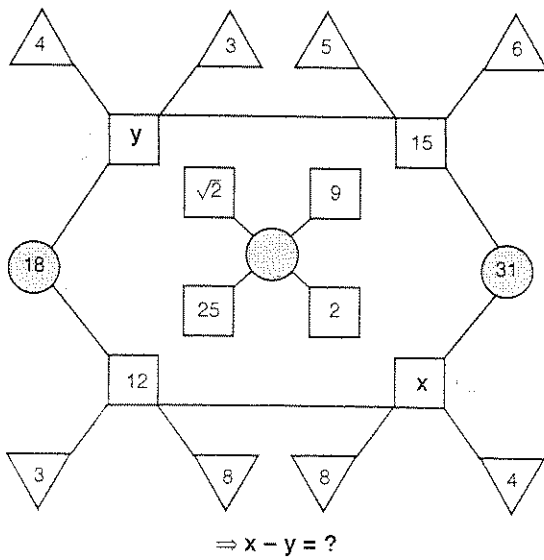
- A) 1 B) 2 C) 3 D) 4 E) 5

6.



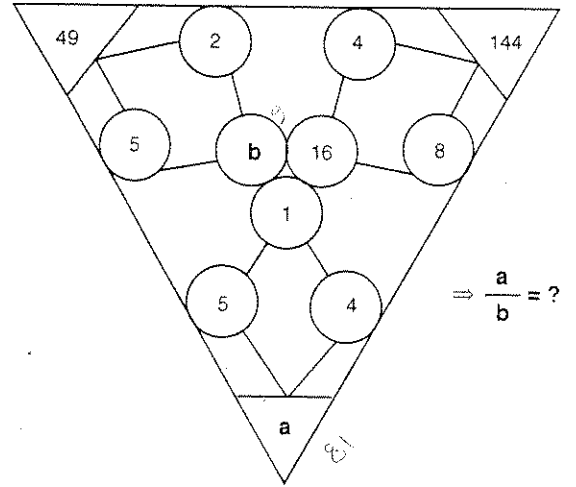
- A) 10 B) 11 C) 12 D) 13 E) 14

7.



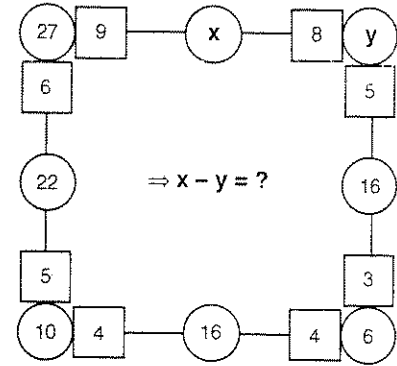
- A) 10 B) 11 C) 12 D) 13 E) 14

8.



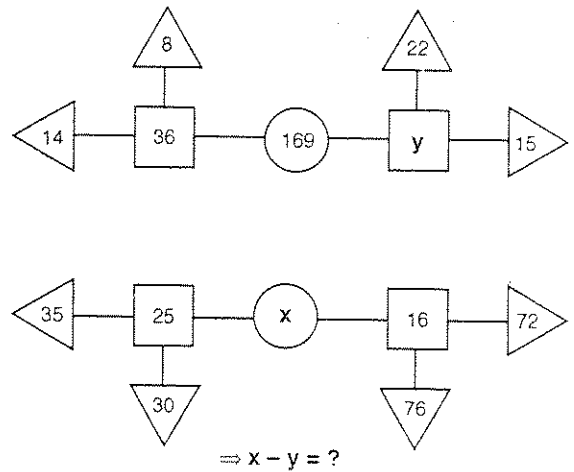
- A) 8 B) 9 C) 10 D) 11 E) 12

9.



- A) 10 B) 11 C) 12 D) 13 E) 14

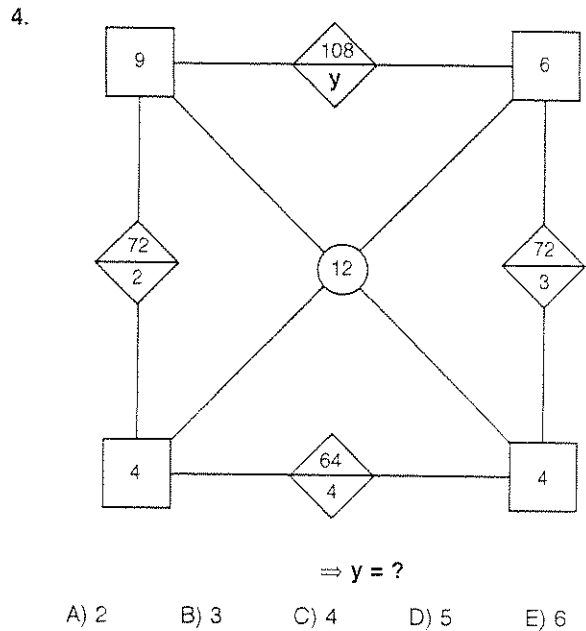
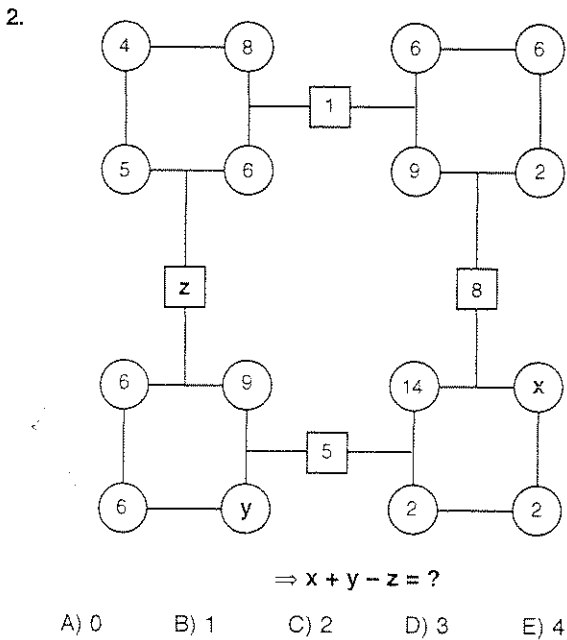
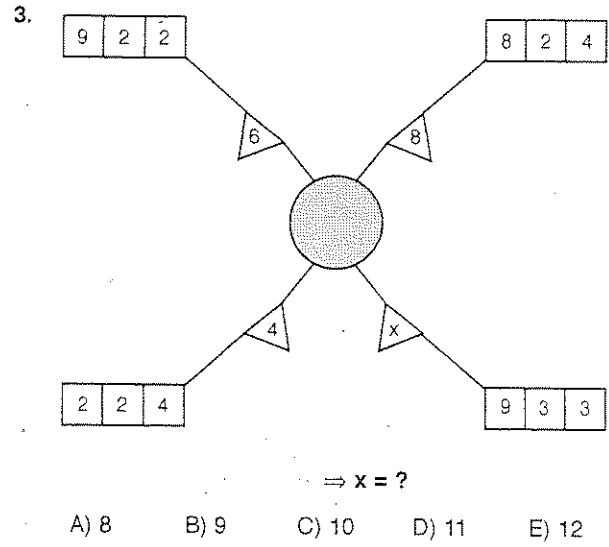
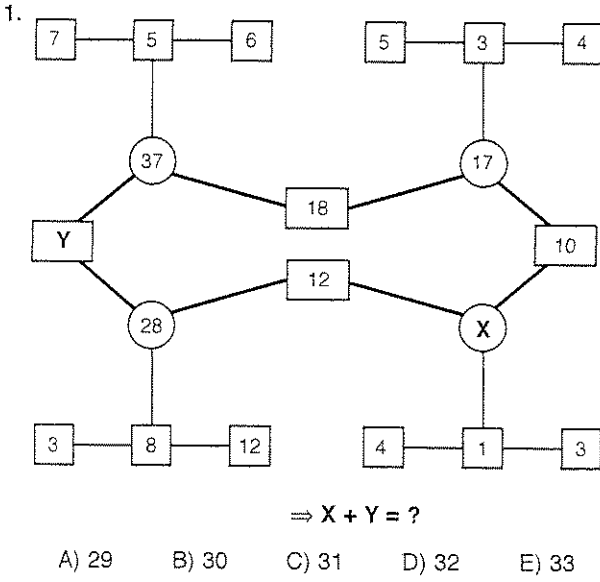
10.

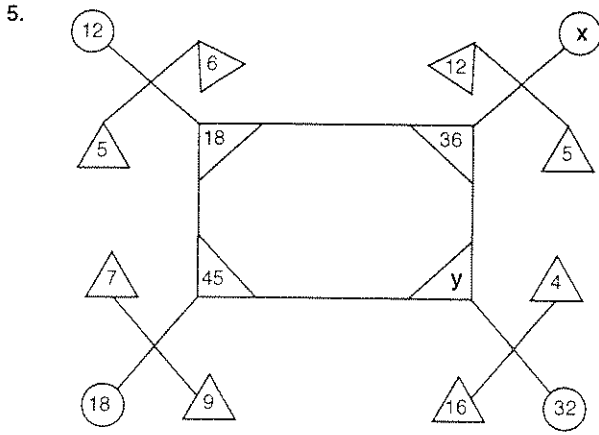


- A) 30 B) 31 C) 32 D) 33 E) 34

Yanıtlar / Answers

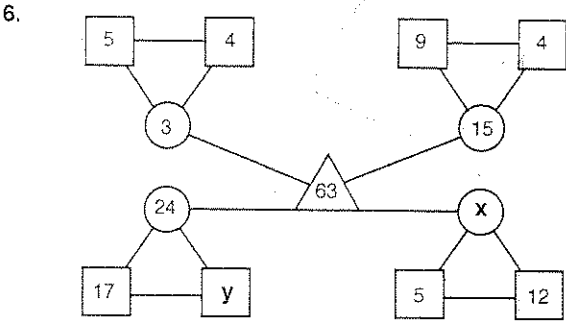
1. B	3. B	5. B	7. A	9. E
2. B	4. A	6. C	8. B	10. C





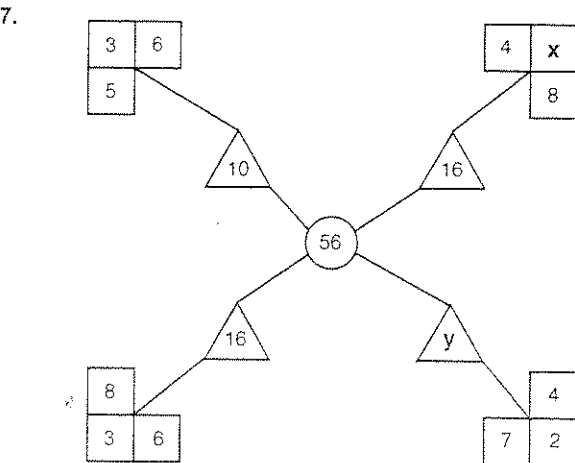
$$\Rightarrow y - x = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10



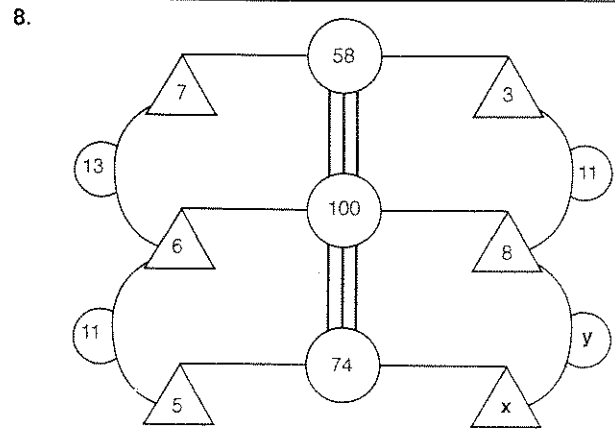
$$\Rightarrow x = ? ; y = ?$$

- A) 21; 8 B) 20; 8 C) 22; 9
D) 21; 9 E) 21; 10



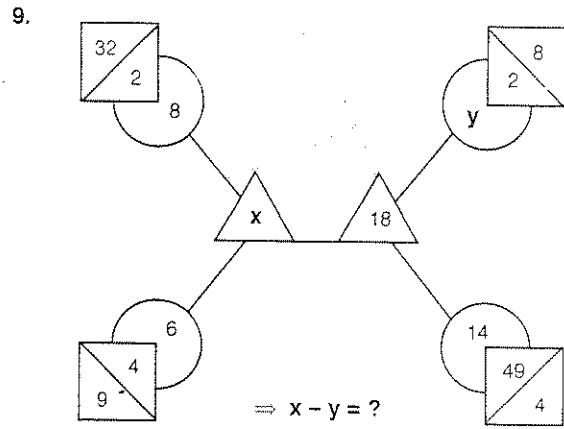
$$\Rightarrow x + y = ?$$

- A) 14 B) 15 C) 16 D) 18 E) 19



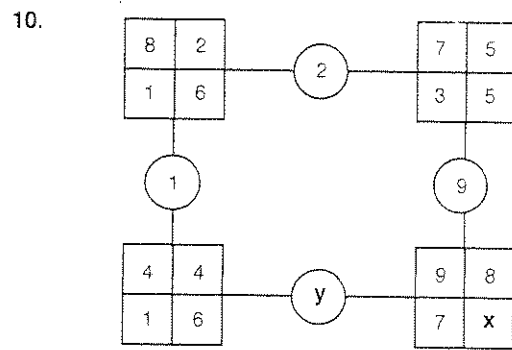
$$\Rightarrow x = ? ; y = ?$$

- A) 15; 8 B) 7; 15 C) 14; 7
D) 14; 6 E) 14; 8



$$\Rightarrow x - y = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 14



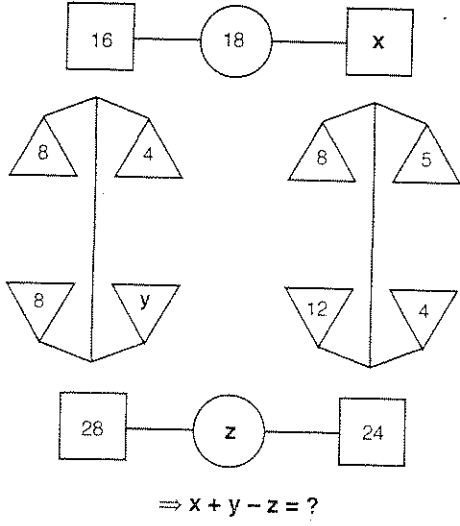
$$\Rightarrow y - x = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4

Yanıtlar / Answers

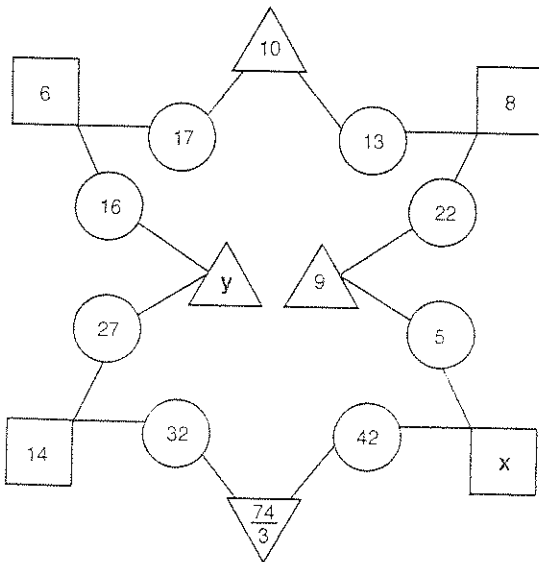
1. C	3. B	5. C	7. C	9. A
2. D	4. A	6. D	8. B	10. E

1.



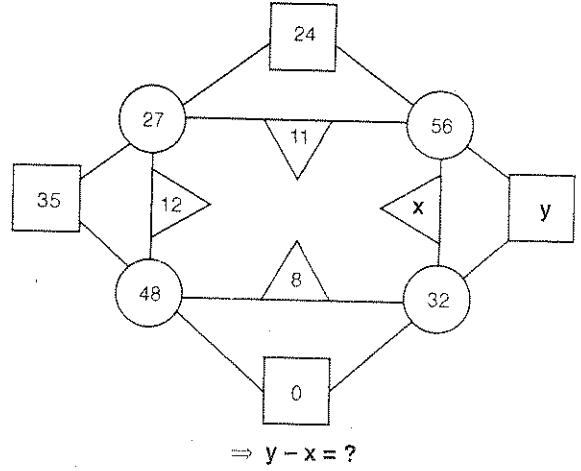
- A) 0 B) 1 C) 2 D) 3 E) 4

2.



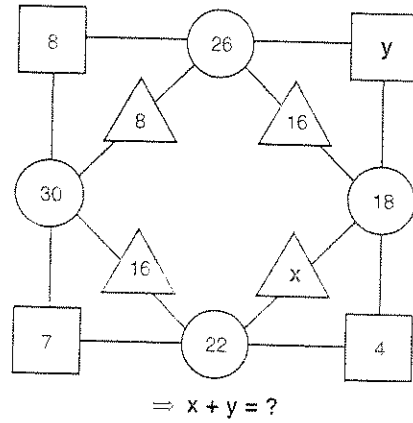
- A) 14 B) 15 C) 16 D) 17 E) 18

3.



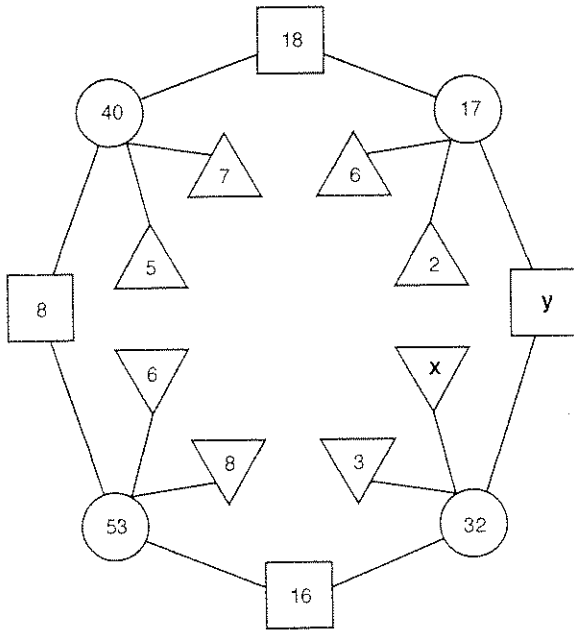
- A) 30 B) 36 C) 40 D) 46 E) 48

4.



- A) 10 B) 11 C) 12 D) 13 E) 14

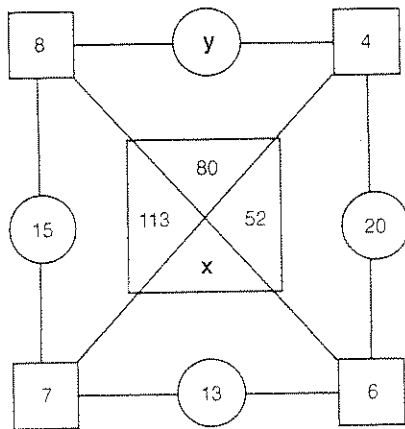
5.



$$\Rightarrow x + y = ?$$

- A) 18 B) 19 C) 20 D) 21 E) 22

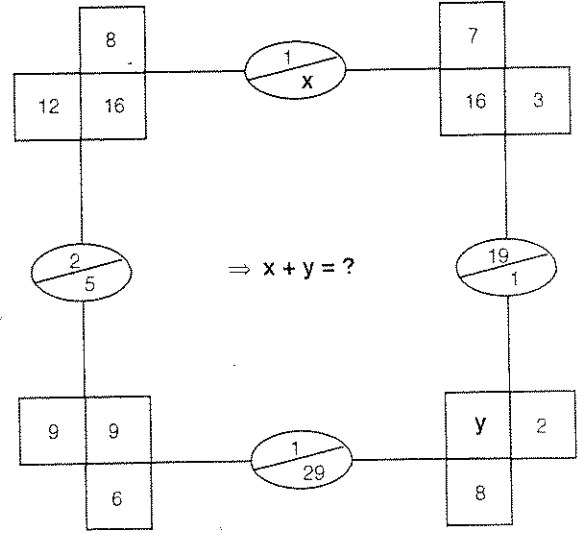
6.



$$\Rightarrow x - y = ?$$

- A) 34 B) 36 C) 37 D) 39 E) 41

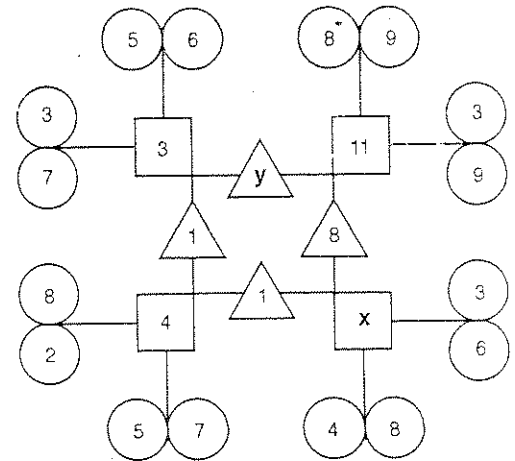
7.



$$\Rightarrow x + y = ?$$

- A) 37 B) 38 C) 39 D) 40 E) 41

8.



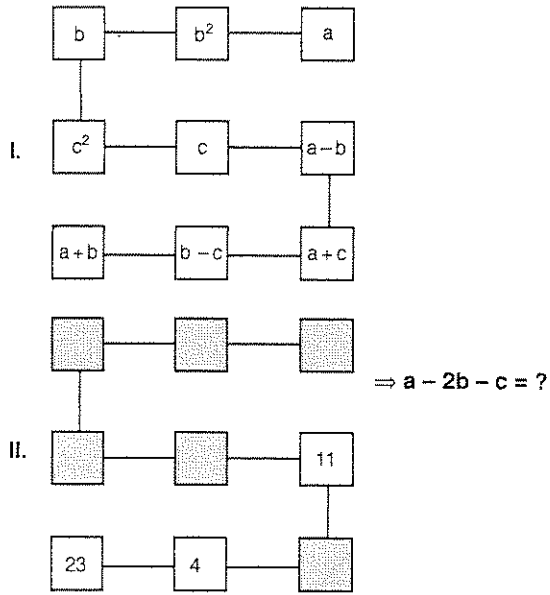
$$\Rightarrow x + y = ?$$

- A) 10 B) 11 C) 12 D) 14 E) 15

Yanıtlar / Answers

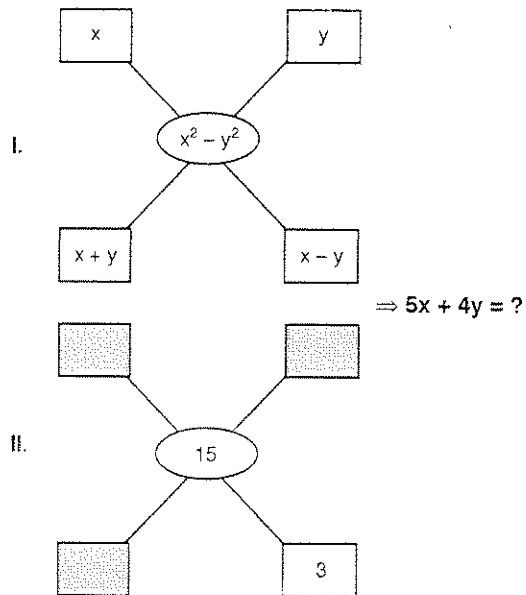
1. B	3. E	5. B	7. A
2. E	4. D	6. C	8. B

1.



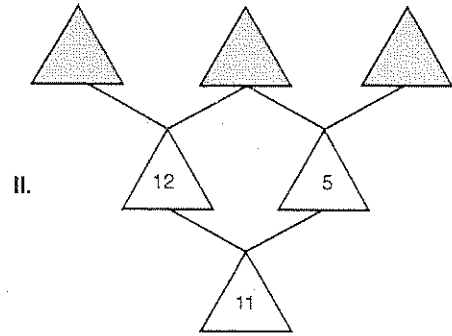
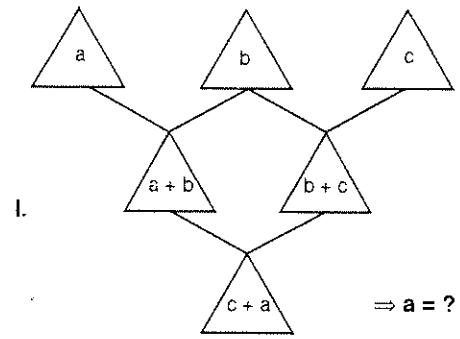
A) 1 B) 2 C) 3 D) 4 E) 5

2.



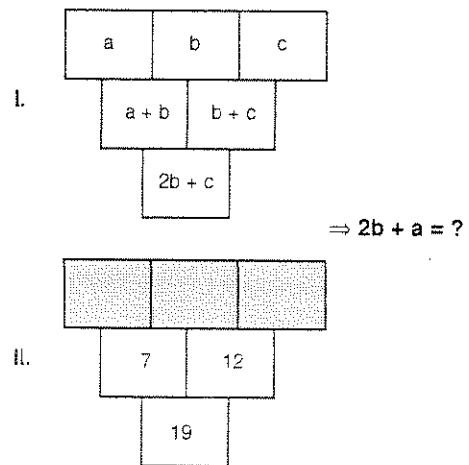
A) 20 B) 22 C) 24 D) 26 E) 28

3.



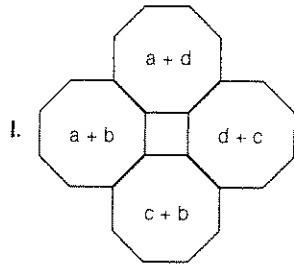
A) 1 B) 3 C) 5 D) 7 E) 9

4.

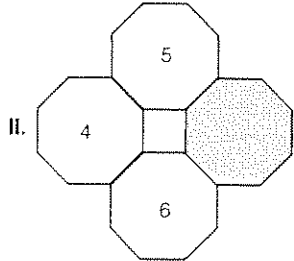


A) 10 B) 11 C) 12 D) 13 E) 14

5.

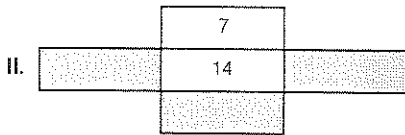
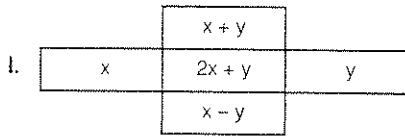


$$\Rightarrow d - b = ?$$



- A) 0 B) 1 C) 2 D) 3 E) 4

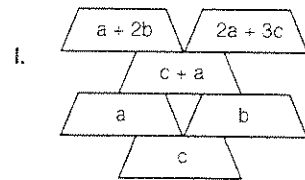
6.



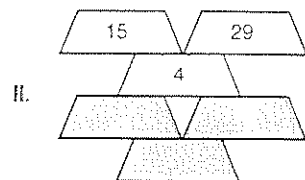
$$\Rightarrow x - 3y = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

7.

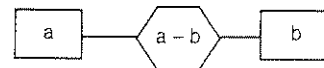


$$\Rightarrow a + b + c = ?$$

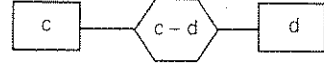
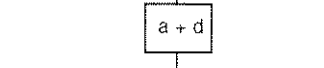


- A) 20 B) 21 C) 22 D) 23 E) 24

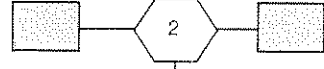
8.



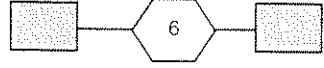
I.



$$\Rightarrow c + b = ?$$

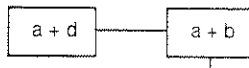


II.

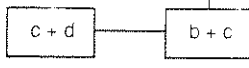


- A) 10 B) 11 C) 12 D) 13 E) 14

9.

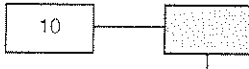


I.

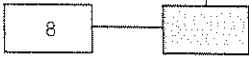


$$a + b + c = 3$$

$$\Rightarrow d = ?$$



II.

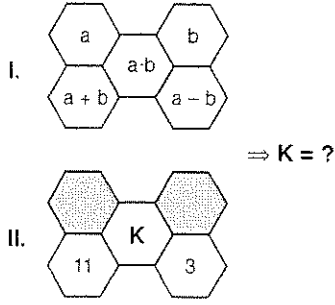


- A) 1 B) 3 C) 5 D) 7 E) 9

Yanıtlar / Answers

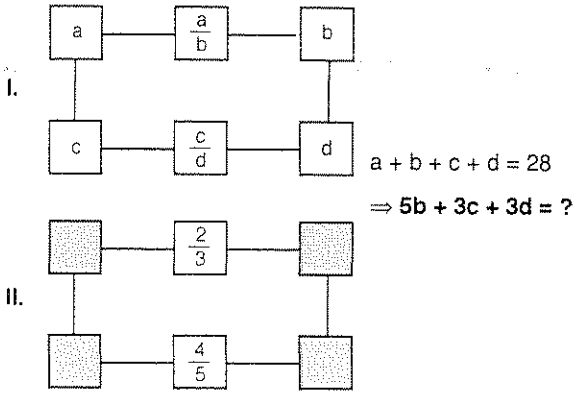
1. C	3. E	5. B	7. A	9. E
2. C	4. E	6. E	8. B	

1.



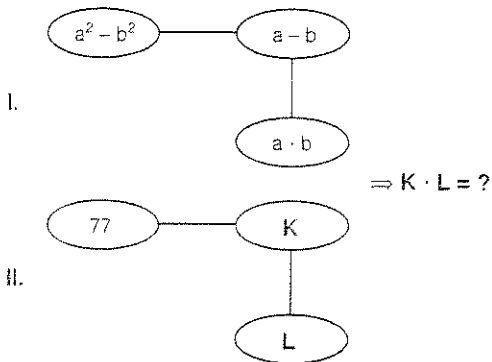
- A) 21 B) 24 C) 28 D) 32 E) 36

2.



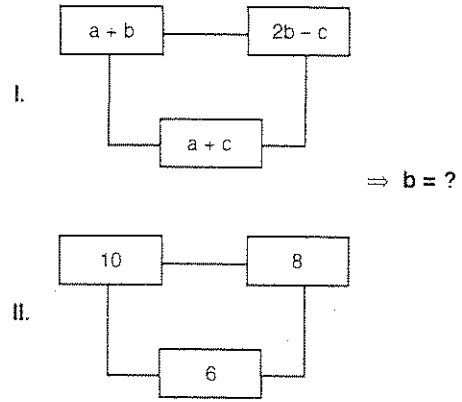
- A) 52 B) 66 C) 78 D) 84 E) 92

3.



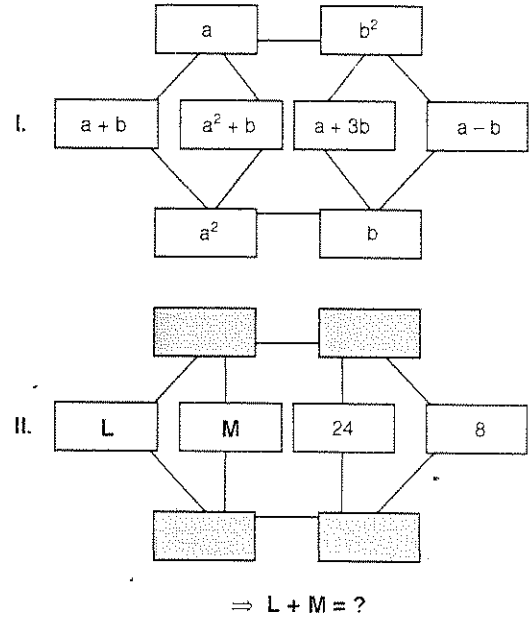
- A) 120 B) 124 C) 126 D) 128 E) 130

4.



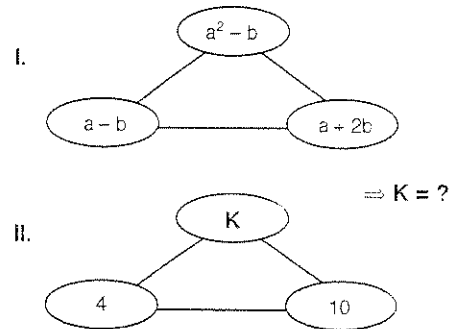
- A) 1 B) 2 C) 3 D) 4 E) 5

5.



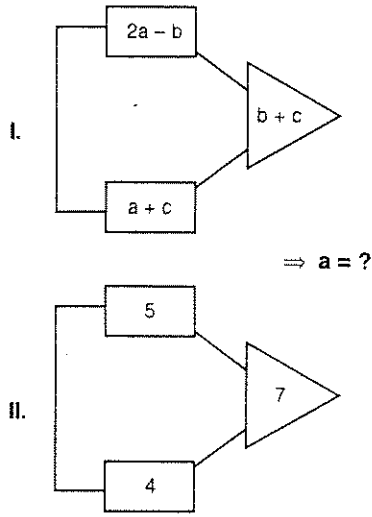
- A) 162 B) 164 C) 166 D) 168 E) 170

6.



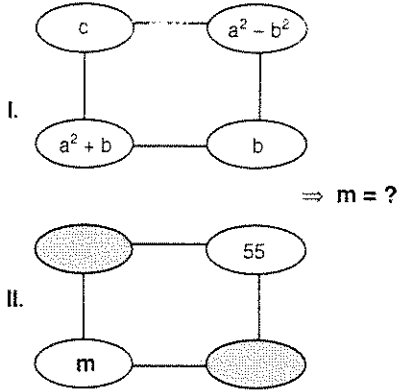
- A) 36 B) 35 C) 34 D) 33 E) 32

7.



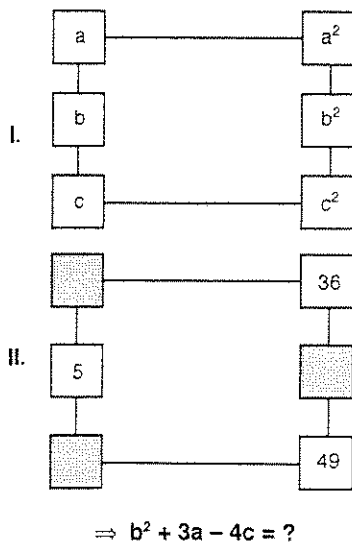
- A) 10 B) 9 C) 8 D) 7 E) 6

8.



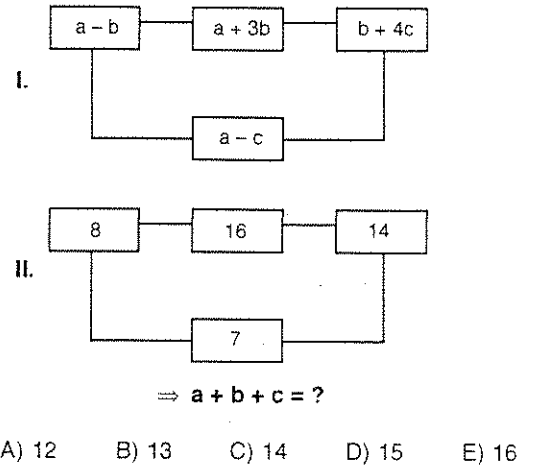
- A) 67 B) 74 C) 85 D) 97 E) 112

9.

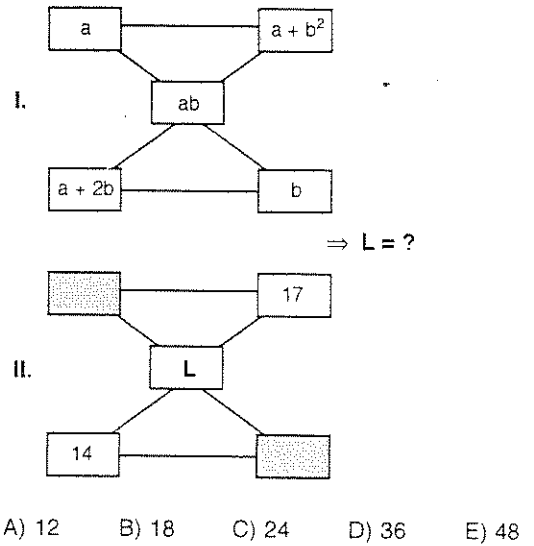


- A) 5 B) 10 C) 15 D) 20 E) 25

10.



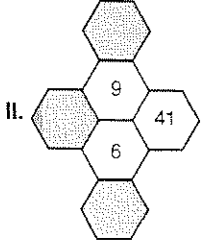
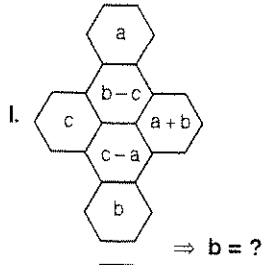
11.



Yanıtlar / Answers

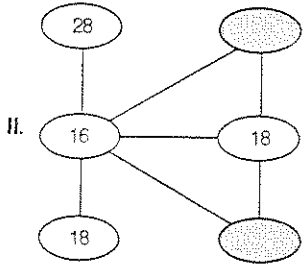
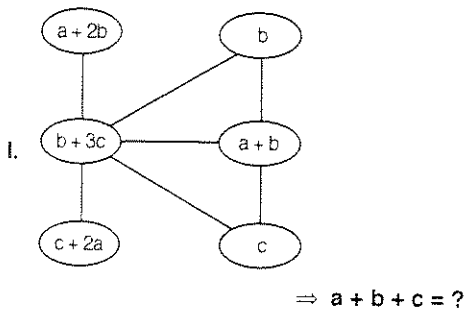
1. C	4. D	7. C	10. D
2. D	5. B	8. A	11. C
3. C	6. C	9. C	

1.



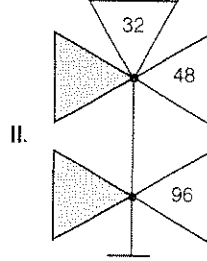
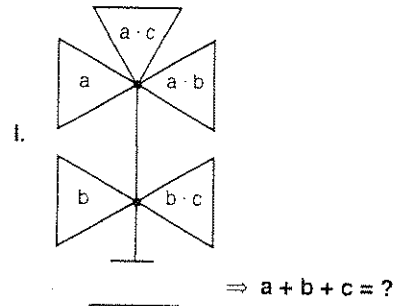
- A) 8 B) 11 C) 19 D) 24 E) 28

2.



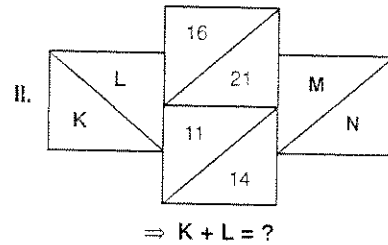
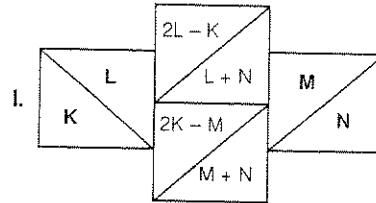
- A) 16 B) 18 C) 20 D) 22 E) 24

3.



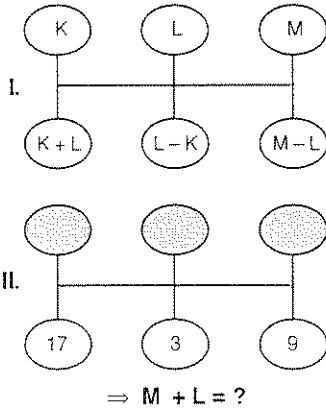
- A) 23 B) 24 C) 25 D) 26 E) 27

4.



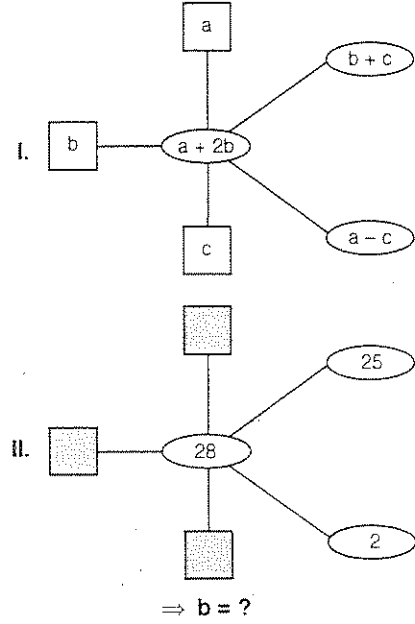
- A) 18 B) 19 C) 20 D) 21 E) 22

5.



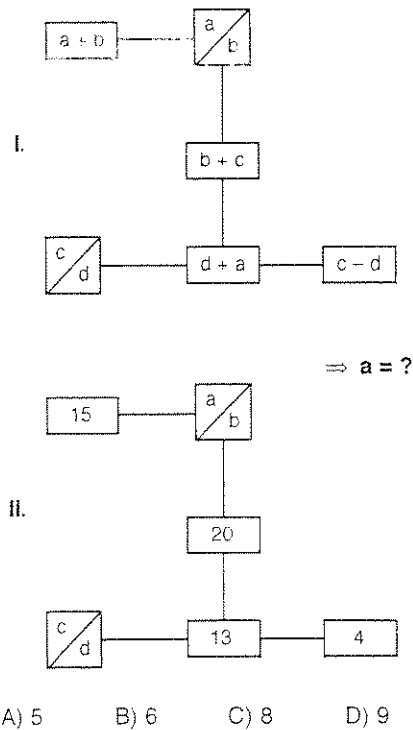
- A) 26 B) 27 C) 28 D) 29 E) 30

7.



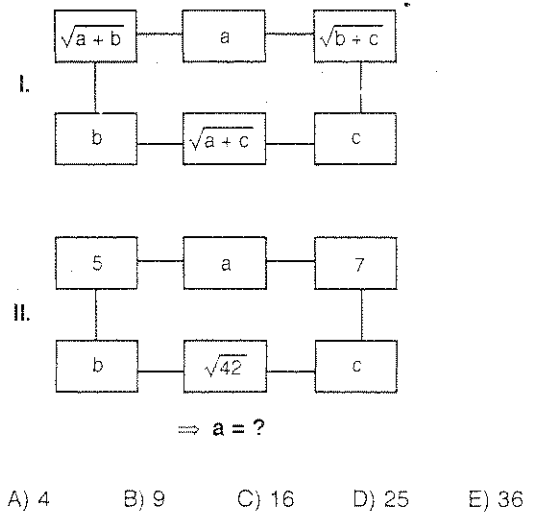
- A) 1 B) 2 C) 3 D) 4 E) 5

6.



- A) 5 B) 6 C) 8 D) 9 E) 12

8.

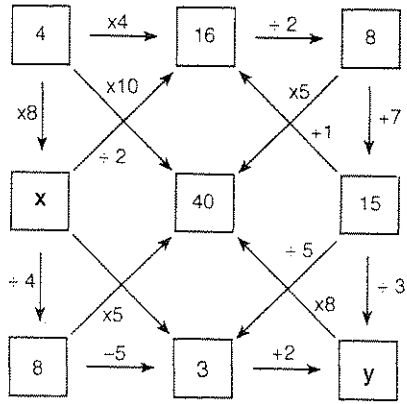


- A) 4 B) 9 C) 16 D) 25 E) 36

Yanıtlar / Answers

1. E	3. B	5. D	7. A
2. C	4. C	6. B	8. B

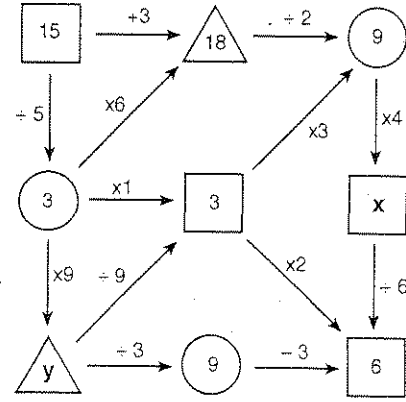
1.



$$\Rightarrow x - y = ?$$

- A) 27 B) 28 C) 29 D) 30 E) 31

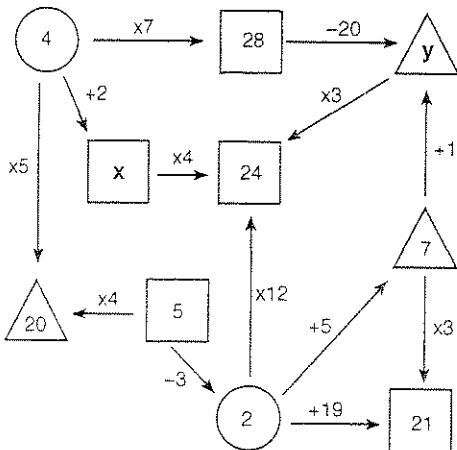
3.



$$\Rightarrow x - y = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

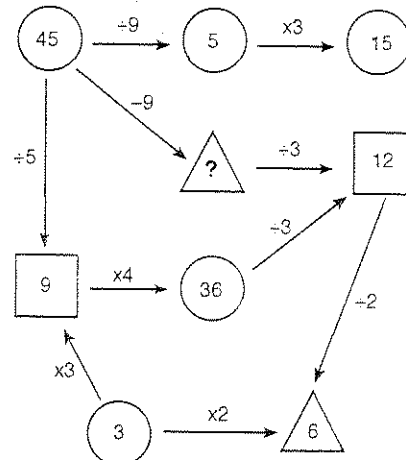
2.



$$\Rightarrow x + y = ?$$

- A) 11 B) 12 C) 14 D) 16 E) 17

4.



- A) 30 B) 33 C) 35 D) 36 E) 39

- 5.
-
- A) 20 B) 21 C) 22 D) 23 E) 24

- 6.
-
- A) 12 B) 14 C) 16 D) 18 E) 20

- 7.
-
- $\Rightarrow x - y = ?$
- A) 30 B) 32 C) 35 D) 37 E) 39

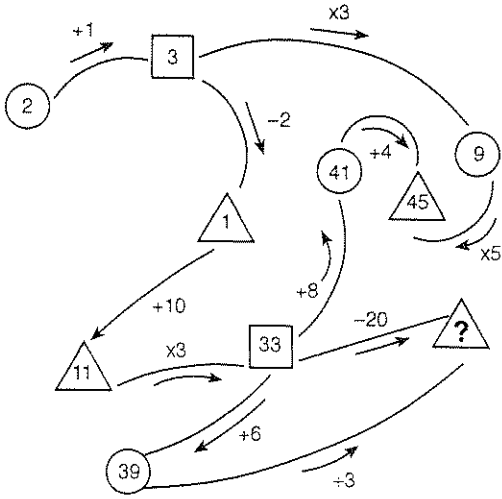
- 8.
-
- A) 21 B) 24 C) 28 D) 31 E) 33

- 9.
-
- $\Rightarrow x + y + z = ?$
- A) 53 B) 54 C) 55 D) 56 E) 57

- 10.
-
- A) 28 B) 29 C) 30 D) 31 E) 32

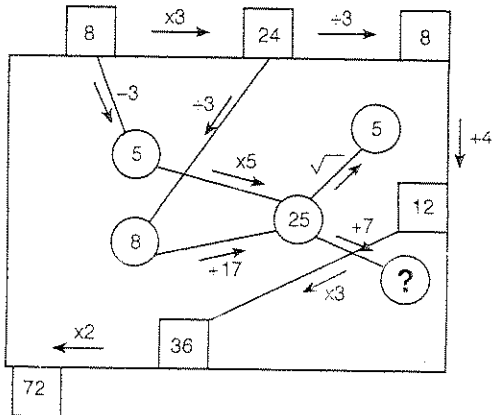
Yanıtlar / Answers				
1. A	3. C	5. E	7. C	9. E
2. C	4. D	6. C	8. C	10. A

1.

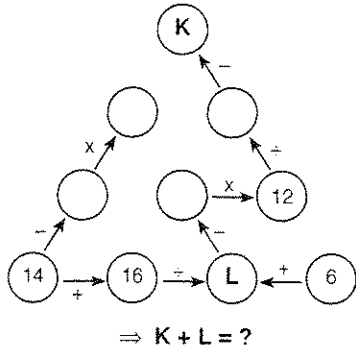


- A) 9 B) 11 C) 13 D) 15 E) 17

2.

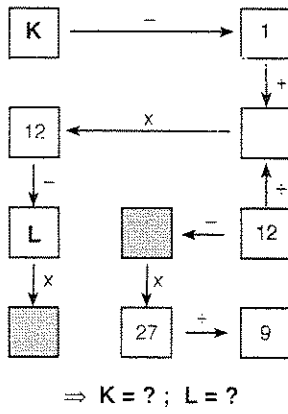


5.



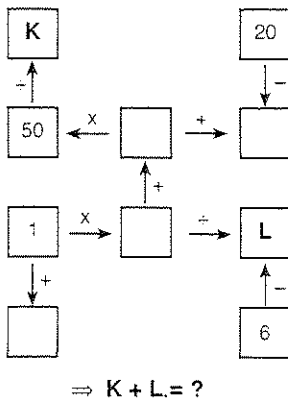
- A) 8 B) 10 C) 12 D) 14 E) 16

6.



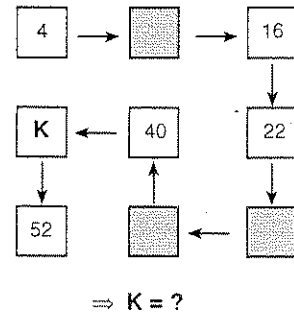
- A) 3; 9 B) 3; 8 C) 4; 7
D) 4; 8 E) 4; 9

7.



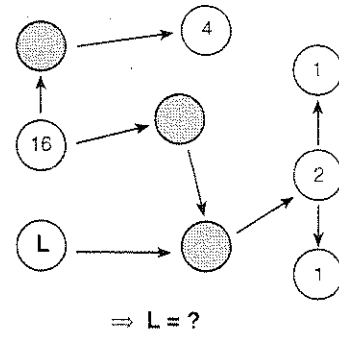
- A) 10 B) 11 C) 12 D) 14 E) 15

8.



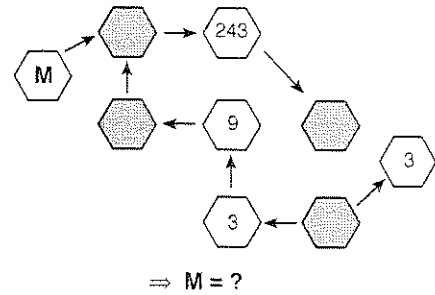
- A) 42 B) 44 C) 46 D) 48 E) 50

9.



- A) 1 B) 2 C) 4 D) 8 E) 16

10.

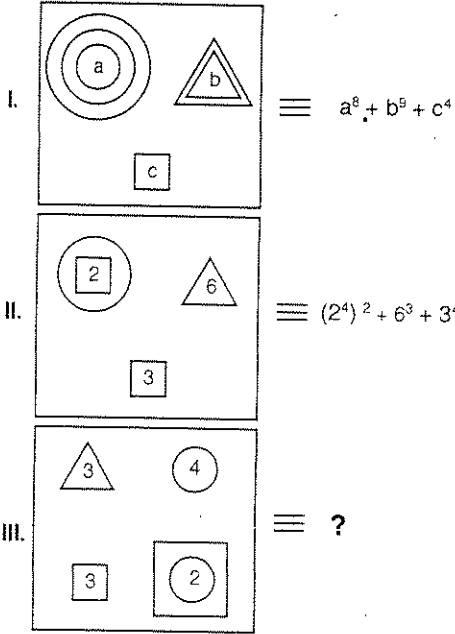


- A) 3 B) 9 C) 27 D) 81 E) 108

Yanıtlar / Answers

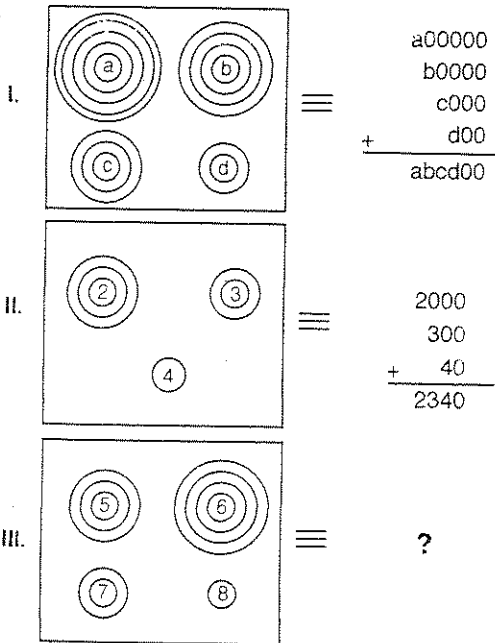
1. C	3. C	5. C	7. B	9. D
2. B	4. D	6. E	8. C	10. C

1.



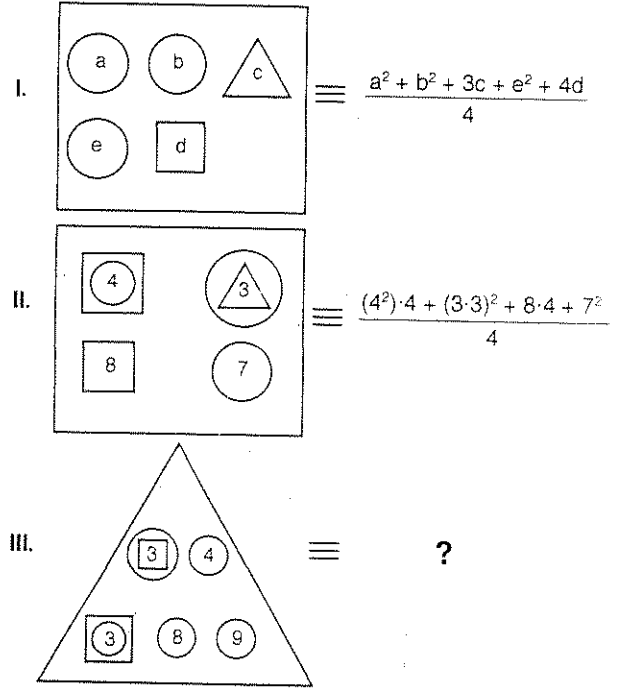
- A) 380 B) 381 C) 382 D) 383 E) 384

2.



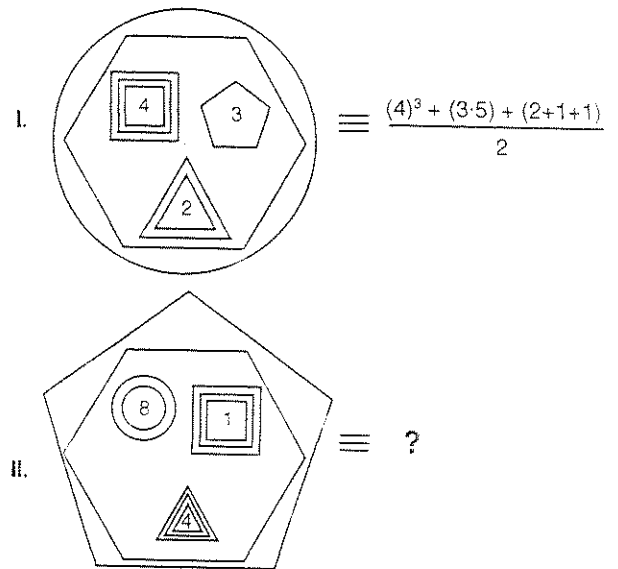
- A) 65780 B) 65880 C) 65982 D) 64852 E) 65954

3.



- A) $\frac{345}{3}$ B) $\frac{344}{3}$ C) $\frac{342}{3}$ D) $\frac{341}{3}$ E) $\frac{361}{3}$

4.



- A) 40 B) 50 C) 60 D) 70 E) 80

5.

I. $\equiv \frac{a^5 + b^3 + 4 \cdot 4 \cdot c + (d \cdot 3)^2}{4}$

II. $\equiv \frac{147}{4}$

III. $\equiv ?$

- A) $\frac{97}{4}$ B) $\frac{99}{4}$ C) $\frac{101}{4}$ D) $\frac{115}{4}$ E) $\frac{123}{4}$

6.

I. $\equiv \frac{a^2 + b^4 + (c^3)^5}{3}$

II. $\equiv \frac{3^2 + 4^4 + (2^3)^2}{3} = \frac{329}{3}$

III. $\equiv ?$

- A) 42 B) 46 C) 48 D) 50 E) 55

7.

I. $\equiv (4 \cdot 4 \cdot a + 3 \cdot b + (c^2) \cdot 4) \cdot 4$

II. $\equiv 109 \cdot 4$

III. $\equiv ?$

- A) 310 B) 311 C) 312 D) 313 E) 314

8.

I. $\equiv 4a + b^3 + 3c + 4d^2$

II. $\equiv 2^3 + 5 \cdot 5 + 8^2 + (3 \cdot 4)^2$

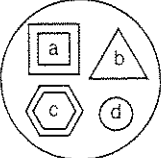
III. $\equiv ?$

- A) 110 B) 111 C) 112 D) 113 E) 114

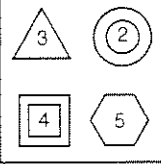
Yanıtlar / Answers

1. A	3. D	5. A	7. C
2. A	4. B	6. D	8. D

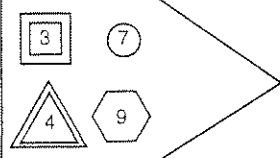
1.

I.  $\equiv ((a + 4 + 4) + (b \cdot 3) + (c \cdot 6 \cdot 6) + (d)^2)^2$

II.

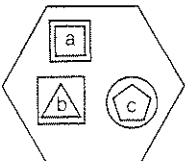
 $\equiv \frac{(3 \cdot 3) + (2^2)^2 + (4 + 4 + 4) + (5 \cdot 6)}{4}$

III.

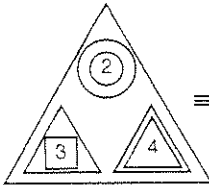
 $\equiv ?$

- A) 29 B) 30 C) 31 D) 32 E) 33

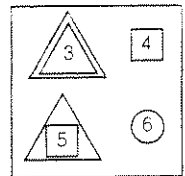
2.

I.  $\equiv ((a \cdot 4 \cdot 6) + (b \cdot 3 \cdot 4) + (c \cdot 5)^2) \cdot 6$

II.

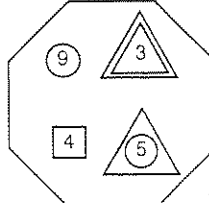
 $\equiv [(2^2)^2 + (3 \cdot 4 \cdot 3) + (4 \cdot 3 \cdot 3)] \cdot 3$

III.

 $\equiv ?$

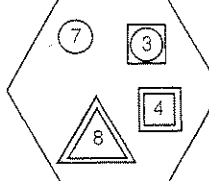
- A) 553 B) 554 C) 556 D) 557 E) 558

3.

I.  $\equiv \frac{9^2 + 3 \cdot 3 \cdot 3 + 4 \cdot 4 + (5^2) \cdot 3}{8}$

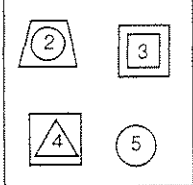
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II.

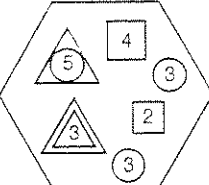
 $\equiv ?$

- A) $\frac{220}{7}$ B) $\frac{221}{6}$ C) $\frac{222}{7}$ D) $\frac{225}{6}$ E) $\frac{223}{6}$

4.

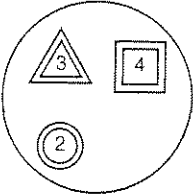
I.  $\equiv \frac{[(2^2) \cdot 4] + (3 \cdot 4 \cdot 4) + 5^2 + (4 \cdot 3 \cdot 4)}{4}$

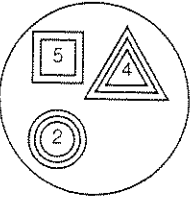
II.

 $\equiv ?$

- A) 20 B) 21 C) 22 D) 23 E) 24

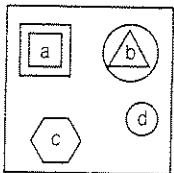
5.

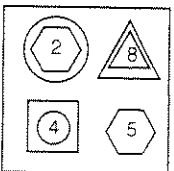
I.  $\equiv (3+3+3) + (4+4+4) + (2+1+1) = 25$

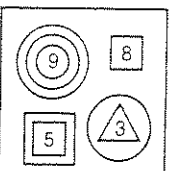
II.  $\equiv ?$

- A) 27 B) 28 C) 29 D) 30 E) 31

6.

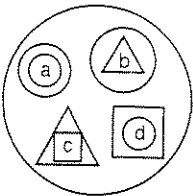
I.  $\equiv (4+4+a) + (2+3+b) + (6+c) + (2+d)$

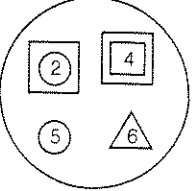
II.  $\equiv (2+6+2) + (3+3+8) + (4+2+4) + (6+5) = 45$

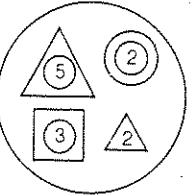
III.  $\equiv ?$

- A) 45 B) 46 C) 47 D) 48 E) 49

7.

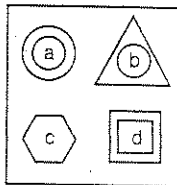
I.  $\equiv (a^2)^2 + (3b)^2 + 3 \cdot 4 \cdot c + 4d^2$

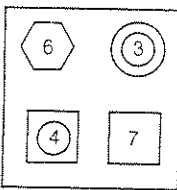
II.  $\equiv 4 \cdot 2^2 + 4 \cdot 4 \cdot 4 + 5^2 + 3 \cdot 6$

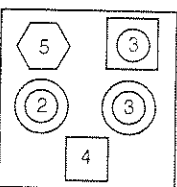
III.  $\equiv ?$

- A) 130 B) 131 C) 132 D) 133 E) 134

8.

I.  $\equiv a^3 + 3b^2 + 6c + 4 \cdot 4 \cdot d$

II.  $\equiv 6 \cdot 6 + 3^3 + 4 \cdot 4^2 + 4 \cdot 7$

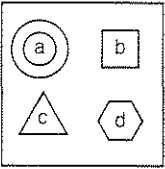
III.  $\equiv ?$

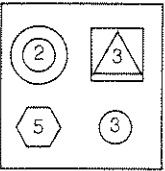
- A) 110 B) 113 C) 117 D) 119 E) 121

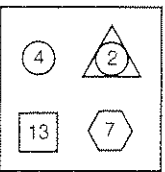
Yanıtlar / Answers

1. B	3. B	5. E	7. D
2. C	4. E	6. D	8. C

1.

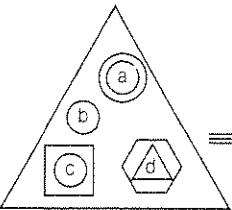
I.  $\equiv (a^2)^2 + 4b + 3c + 6d$

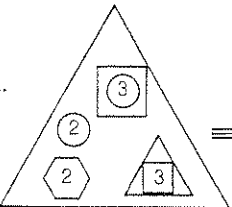
II.  $\equiv (2^2)^2 + 3 \cdot 3 \cdot 4 + 5 \cdot 6 + 3^2$

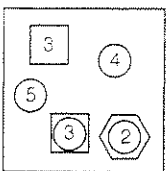
III.  $\equiv ?$

A) 121 B) 122 C) 124 D) 125 E) 127

2.

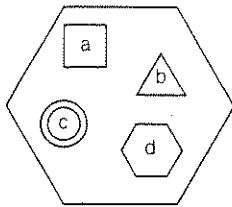
I.  $\equiv (a^2)^2 + b^2 + c^2 \cdot 4 + (3d) \cdot 6$

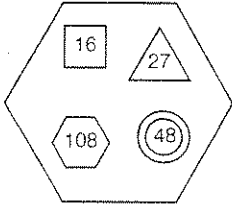
II.  $\equiv 2^2 + (3^2) \cdot 4 + 2 \cdot 6 + 3 \cdot 4 \cdot 3$

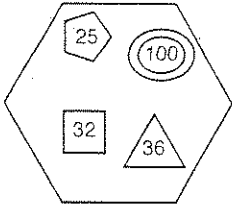
III.  $\equiv ?$

A) 110 B) 111 C) 112 D) 113 E) 114

3.

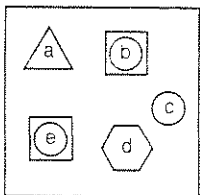
I.  $\equiv \frac{a}{4} + \frac{b}{3} + \frac{c}{2} + \frac{d}{6}$

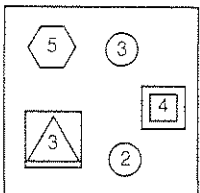
II.  $\equiv \frac{16}{4} + \frac{27}{3} + \frac{108}{6} + \frac{48}{2}$

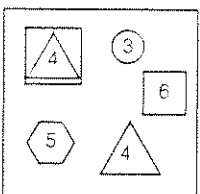
III.  $\equiv ?$

A) 47 B) 48 C) 49 D) 50 E) 51

4.

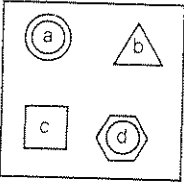
I.  $\equiv 3a + 4b^2 + 4e^2 + c^2 + 6d$

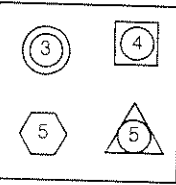
II.  $\equiv 2^2 + 5 \cdot 6 + 3^2 + 4 \cdot 4 \cdot 4 + 3 \cdot 3 \cdot 4$

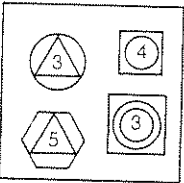
III.  $\equiv ?$

A) 120 B) 123 C) 125 D) 127 E) 129

5.

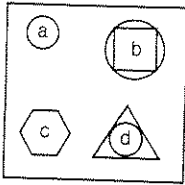
I.  $\equiv 2 \cdot 2 \cdot a + 3b + 4c + (2d) \cdot 6$

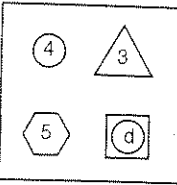
II.  $\equiv 2 \cdot 2 \cdot 3 + 2 \cdot 4 \cdot 4 + 6 \cdot 5 + 3 \cdot 2 \cdot 5$

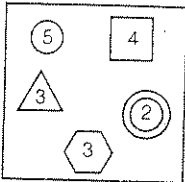
III.  $\equiv ?$

A) 180 B) 183 C) 185 D) 186 E) 188

7.

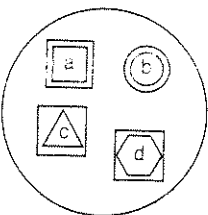
I.  $\equiv a^2 + (4b)^2 + 6c + 3d^2$

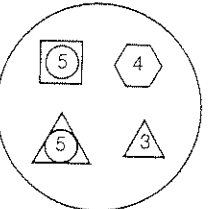
II.  $\equiv 4^2 + 3 \cdot 3 + 6 \cdot 5 + 4d^2$

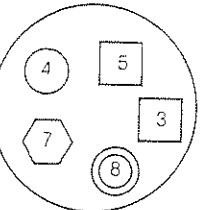
III.  $\equiv ?$

A) 80 B) 81 C) 82 D) 83 E) 84

6.

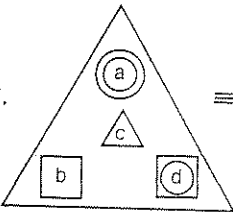
I.  $\equiv (4 + 4 + a) + (2 + 2 + b) + (4 + 3 + c) + (4 + d + 6)$

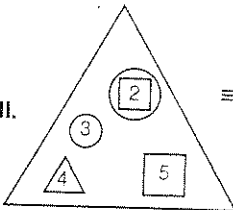
II.  $\equiv (5 + 2 + 4) + (4 + 6) + (3 + 2 + 5) + (3 + 3)$

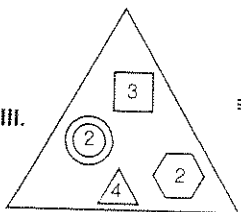
III.  $\equiv ?$

A) 44 B) 45 C) 46 D) 47 E) 48

8.

I.  $\equiv (a^2)^2 + (b)^4 + c^3 + (d^2)^4$

II.  $\equiv 3^2 + (2^4)^2 + 4^3 + 5^4$

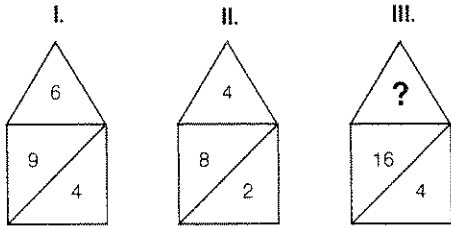
III.  $\equiv ?$

A) 220 B) 221 C) 222 D) 224 E) 225

Yanıtlar / Answers

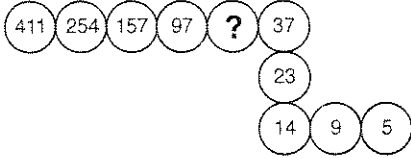
1. B	3. D	5. E	7. E
2. D	4. B	6. D	8. E

1.



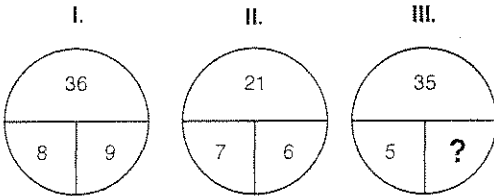
- A) 7 B) 8 C) 9 D) 10 E) 11

2.



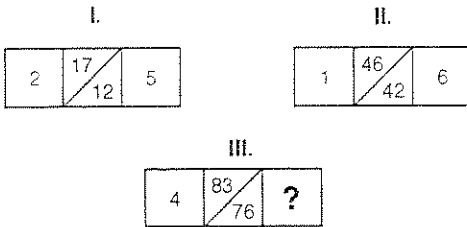
- A) 58 B) 59 C) 60 D) 62 E) 63

3.



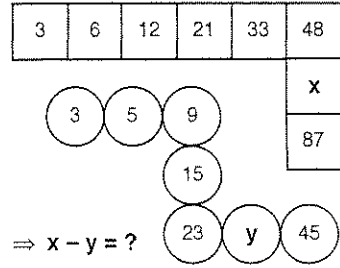
- A) 10 B) 11 C) 12 D) 14 E) 16

4.



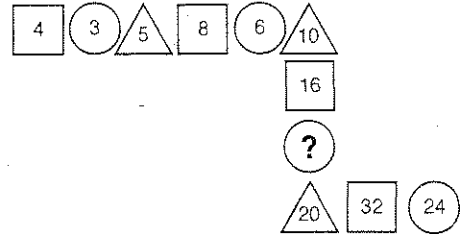
- A) 5 B) 6 C) 7 D) 8 E) 9

5.



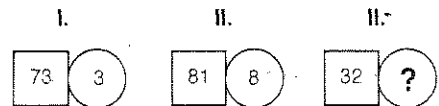
- A) 30 B) 31 C) 33 D) 35 E) 37

6.



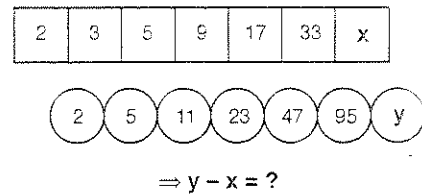
- A) 12 B) 14 C) 16 D) 17 E) 18

7.



- A) 2 B) 3 C) 4 D) 5 E) 6

8.



- A) 120 B) 123 C) 125 D) 126 E) 128

9. I. II. III.
-
- A) 12 B) 14 C) 16 D) 18 E) 20

10. 14 16 16 17 18 18 20 19 x
- $\Rightarrow x - y = ?$
- 20
- 22 26 y 24
- A) 1 B) 2 C) 3 D) 4 E) 5

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11. I. II. III.
-
- A) 100 B) 125 C) 150 D) 175 E) 200

- 12.
-
- A) 50 B) 51 C) 52 D) 53 E) 54

13. I. II. III.
-
- A) 10 B) 11 C) 12 D) 13 E) 14

14. I. II. III.
-
- A) 30 B) 31 C) 32 D) 34 E) 35

- 15.
-
- A) 230 B) 231 C) 232 D) 233 E) 234

16. I. II. III.
-
- A) 1 B) 3 C) 5 D) 6 E) 7

Yanıtlar / Answers					
1. B	4. E	7. E	10. A	13. C	16. D
2. C	5. C	8. D	11. B	14. E	
3. D	6. A	9. A	12. D	15. C	

1. I. II. III.
-
- A) 3 B) 5 C) 8 D) 9 E) 12

- 2.
-
- $\Rightarrow x - y = ?$
- A) 1 B) 2 C) 3 D) 4 E) 5

3. I. II. III.
-
- A) 3 B) 4 C) 6 D) 7 E) 8

- 4.
-
- A) 10 B) 11 C) 12 D) 13 E) 14

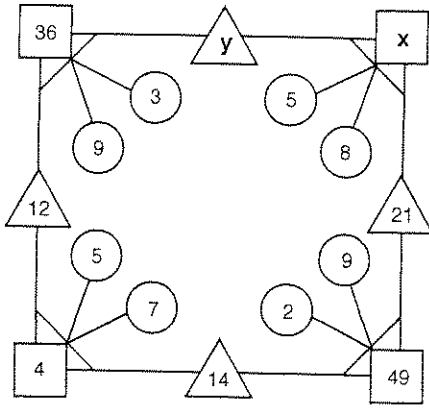
5. I. II. III.
-
- A) 8 B) 9 C) 10 D) 11 E) 12

6. I. II. III.
-
- A) 10 B) 11 C) 12 D) 13 E) 14

- 7.
-
- $\Rightarrow x, y = ?$
- A) 95, 108 B) 96, 107 C) 95, 107
D) 96, 109 E) 93, 107

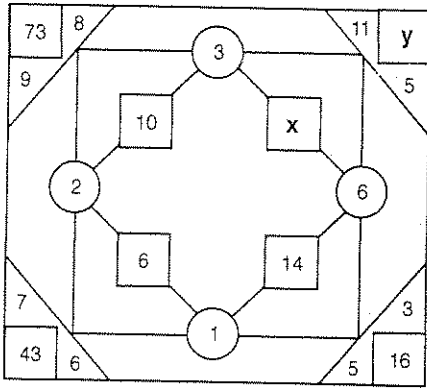
- 8.
-
- $\Rightarrow y - x = ?$
- A) 26 B) 27 C) 28 D) 29 E) 30

9.


 $\Rightarrow x, y = ?$

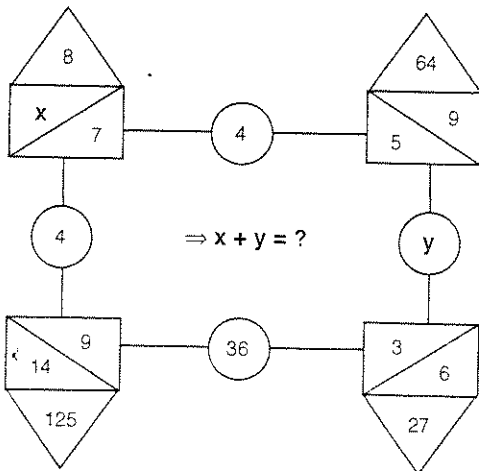
- A) 9, 19 B) 9, 18 C) 10, 20
D) 9, 20 E) 8, 19

10.


 $\Rightarrow x, y = ?$

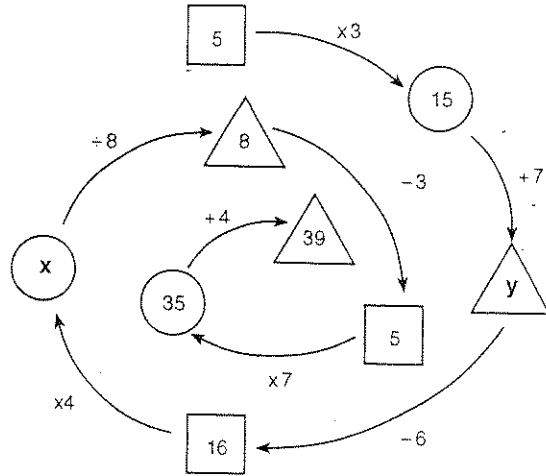
- A) 18, 56 B) 16, 56 C) 14, 57
D) 18, 58 E) 16, 55

11.


 $\Rightarrow x + y = ?$

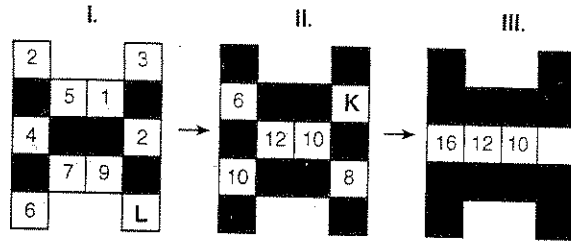
- A) 13 B) 14 C) 15 D) 16 E) 17

12.


 $\Rightarrow x - y = ?$

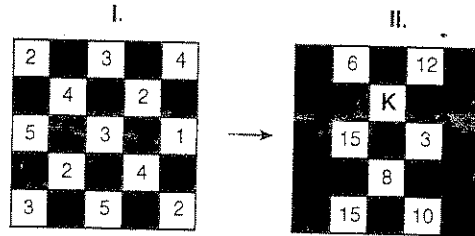
- A) 40 B) 42 C) 44 D) 46 E) 47

13.

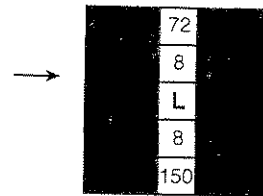

 $\Rightarrow K + L = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

14.



III.


 $\Rightarrow K + L = ?$

- A) 49 B) 50 C) 51 D) 52 E) 53

Yanıtlar / Answers

1. C	4. E	7. C	10. A	13. E
2. C	5. B	8. B	11. A	14. E
3. A	6. D	9. B	12. B	

1.

+	x	y	z
x			12
y			
z			

$$x + y + z = 18$$

$$\Rightarrow y = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3

2.

+	x	y	z
x		a	
y			
z		b	

$$\Rightarrow a - b = ?$$

- A) $x + z$ B) $x - z$ C) $y - z$
D) $x - y$ E) $z - y$

3.

+	a	b	c
a		14	
b			8
c			

$$\Rightarrow a + 2b + c = ?$$

- A) 20 B) 21 C) 22 D) 23 E) 24

4.

+	a	b	c
a		10	
b			9
c	5		

$$\Rightarrow a + b + c = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

5.

+	a-1	b-2	c-3
a	3		
b		4	
c			5

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 13 C) 11 D) 9 E) 7

6.

x	K	L	M
K	16	12	
L			
M	24		

$$\Rightarrow L \cdot M = ?$$

- A) 9 B) 12 C) 15 D) 18 E) 21

7.

+	a	b	c
a		10	12
b			14
c			

$$\Rightarrow b = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

8.

+	a	b	c
a		12	
b			9
c			

$$a + b + c = 16$$

$$\Rightarrow a + c = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

9.

+	a	b	c
a	k		
b			
c			

x	a	b	c
a	k		
b			
c			

$$a \neq 0 \Rightarrow k = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

10.

+	a	b	c
a		7	
b			5
c			

x	a	b	c
a			8
b			
c			

$$\Rightarrow a + b + c = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5

11.

x	a	b	c	d
a	k			
b	2	4k		
c			16k	
d				9k

$$\Rightarrow k = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

12.

x	a	b	c
a	b	27	
b			18
c			

$$\Rightarrow c = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

13.

x	a	b	c
a		3	
b			
c	6	2	

$$\Rightarrow ab + bc + ac = ?$$

- A) 11 B) 10 C) 9 D) 8 E) 7

14.

x	a	b	c
a	b		
b		c	
c			256

$$\Rightarrow a = ?$$

- A) 2 B) 4 C) 8 D) 10 E) 12

15.

+	x	y	z
x		z + 1	
y			
z		x + 3	

$$\Rightarrow y = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

16.

+	a	b	c	d
a		x		z
b	K			
c				y
d	M		L	

+	x	y	z
x	10	14	12
y			
z			

$$\Rightarrow K + L + M = ?$$

- A) 21 B) 19 C) 17 D) 15 E) 13

Yanıtlar / Answers

1. B	4. C	7. E	10. A	13. A	16. A
2. B	5. D	8. E	11. E	14. A	
3. C	6. D	9. C	12. B	15. B	

1.

+	x	y	z
x			
y	21		
z			28

$\Rightarrow x + y + z = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

2.

+	a	b	c
a			15
b	21		
c		10	

$\Rightarrow a + b + c = ?$

- A) 25 B) 24 C) 23 D) 22 E) 21

3.

+	a	b	c
a		11	b
b			
c		10	

$\Rightarrow 2a + 2c + b = ?$

- A) 13 B) 15 C) 17 D) 19 E) 21

4.

+	a	b	c
a	2c		
b			
c		10	

$\Rightarrow a + b = ?$

- A) 2 B) 4 C) 6 D) 8 E) 10

5.

+	a	b	c
a		c	
b	8		
c			

$\Rightarrow a + b + c = ?$

- A) 18 B) 16 C) 14 D) 12 E) 10

6.

+	a	b	c
a			
b			5
c			

x	a	b	c
a		16	24
b			
c			

$\Rightarrow b = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

7.

+	K	L	M
K			
L	7		
M			

x	K	L	M
K			
L			20
M	15		

$\Rightarrow M = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

8.

x	x	y	z
x		8	
y		4	
z		12	

$\Rightarrow X = ?$

- A) y B)
- $y^2 + z^2$
- C)
- y^2
- D)
- z^2
- E)
- $y^2 - z^2$

9.

x	K	L	M
K		Y	
L			18
M	27		81

$$\Rightarrow Y = ?$$

- A) 30 B) 24 C) 18 D) 12 E) 6

10.

+	a	b	c	d
a		5	L	N
b	M		7	8
c	6	P		9
d	7	K	R	

$$\Rightarrow \begin{array}{c} KLM \\ -NPR \\ \hline ??? \end{array}$$

- A) 86 B) 196 C) 256 D) 316 E) 406

11.

+	4	5	6
K	a		
L			
M			

+	K	L	M
a	8		
b			
c			

$$\Rightarrow K = ?$$

- A) 2 B) 4 C) 6 D) 8 E) 10

12.

x	a	b	c
a			
b	13		26
c			

$$\Rightarrow a + c = ?$$

- A) 6 B) 5 C) 4 D) 3 E) 2

13.

x	ab	bc	ac
$\frac{1}{a}$	a^2		
$\frac{1}{b}$		b^2	
$\frac{1}{c}$			2

$$\Rightarrow c = ?$$

- A) 24 B) 22 C) 20 D) 18 E) 16

14.

+	x	y	z
x		5	
y			
z	7	6	

x	x	y	z
x		6	
y			
z			

$$\Rightarrow x^2 + y^2 = ?$$

- A) 15 B) 14 C) 13 D) 12 E) 11

15.

+	a	b	c
a			
b			a
c	b+2		

$$\Rightarrow c = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

16.

x	K	L
M	8	
N	6	3

$$\Rightarrow (K + L) \cdot (N - M) = ?$$

- A) 6 B) 3 C) 0 D) -3 E) -6

Yanıtlar / Answers

1. B	4. E	7. C	10. A	13. E	16. D
2. C	5. B	8. C	11. A	14. C	
3. E	6. B	9. E	12. D	15. A	

1.

+	a	b	c
a		$a^2 - b^2$	
b			
c			

$$\Rightarrow a - b = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

2.

x	K	L	M
K	64		
L	56		35
M			

$$\Rightarrow K \cdot M = ?$$

- A) 72 B) 49 C) 40 D) 25 E) 15

3.

+	x	y	z
x		-5	
y			-3
z	-4		

$$x, y, z \in \mathbb{Z}^-$$

$$\Rightarrow x + y + z = ?$$

- A) -6 B) -3 C) 0 D) 3 E) 6

4.

+	a	b	c
a			b
b			
c			

$$a + b + c = 8$$

$$\Rightarrow a + c = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

5.

x	a	b	c
a			
b			$2ab$
c	32		

$$\Rightarrow c = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

6.

+	a	b	c
a		xy	
b			
c	xz	yz	

$$a + b + c = 18$$

$$\Rightarrow xy + yz + xz = ?$$

- A) 72 B) 36 C) 18 D) 9 E) 3

7.

+	x	y	z
x		z	
y			$x + z - 3$
z			

$$\Rightarrow 2x - z = ?$$

- A) 6 B) 5 C) 4 D) 3 E) 2

8.

+	a	b	c	d
x	6	7	8	9
y	7	8	9	10
z	8	9	10	11

+	x	y	z
a	L	N	
b		K	
c	K		
d	M		

$$\Rightarrow (L + M) - (K + N) = ?$$

- A) 12 B) 8 C) 4 D) 2 E) 0

9.

+	x	y	z
x		K	
y			M
z	L		

$$x + y + z = 8$$

$$\Rightarrow K + L + M = ?$$

- A) 32 B) 24 C) 16 D) 8 E) 4

10.

+	x	y	z
x		K	
y			L
z	M		

$$\Rightarrow K + L - M = ?$$

- A) $2y$ B) y^2 C) y
D) $x^2 - z^2$ E) $x^2 + y^2$

11.

+	a	b
a		19
b		24

+	x	y	z
a	11	2z	
b			17
c		30	

$$\Rightarrow c = ?$$

- A) 30 B) 27 C) 24 D) 21 E) 18

12.

+	a	b	c
a		13	
b			11
c			

$$a + b + c = 18$$

$$\Rightarrow \frac{a+c}{b} = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

13.

+	a	b	c
a		$a^2 - b^2$	
b	T		
c			

$$\Rightarrow T = ?$$

- A) $a + 1$ B) $a + b + 1$ C) $2a - 1$
D) $2a + b - 1$ E) $a - b + 1$

14.

x	a^2	b^2	c^2
a^2		64	
b^2			
c^2			81

$$a > c > b \neq 1$$

$$\Rightarrow a^2 + b^2 + c^2 = ?$$

- A) 9 B) 19 C) 29 D) 39 E) 49

15.

x	a	b	c
a			2
b		4	
c			4

$$c < a < 0 < b$$

$$\Rightarrow a = ?$$

- A) 2 B) 1 C) 0 D) -1 E) -2

16.

+	a	b
a		$3\sqrt{2}$
b		

x	a	b
a		4
b		

$$a - b = \sqrt{2} \Rightarrow a^3 + b^3 = ?$$

- A) $18\sqrt{2}$ B) $9\sqrt{2}$ C) $3\sqrt{2}$
D) $\sqrt{2}$ E) $5\sqrt{2}$

Yanıtlar / Answers

1. E	4. D	7. D	10. A	13. C	16. A
2. C	5. E	8. E	11. B	14. C	
3. A	6. B	9. C	12. D	15. D	

1.

+	a	b	c
a		0	
b			3
c	1		

$$a < 0 < b < c \\ \Rightarrow (a + b + c)^{a+b} = ?$$

- A) 25 B) 16 C) 9 D) 4 E) 1

2.

+	4	P	12
6		15	
9			
N	15		

$$\Rightarrow N - P = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

3.

x	K	L	M
K		B	
L			A
M	C		

$$\Rightarrow \frac{ABC}{KLM} = ?$$

- A) K^2M B) KLM C) M^2L^2
D) $K \cdot ML^2$ E) $K \cdot M \cdot 2L$

4.

+	a	b	c
a			27
b		18	
c			

$$a + c = 3k \\ \Rightarrow k = ?$$

- A) a B) c C) b D) a - c E) 3b

5.

x	a	b	c
a		K	
b			M
c	L		

$$(a + c)(b + c) = c^2 \\ \Rightarrow K + L + M = ?$$

- A) 4 B) 3 C) 2 D) 1 E) 0

6.

+	a	b	c
a		19	
b			16
c	13		

$$\Rightarrow \frac{a + b + c}{b + c} = ?$$

- A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

7.

x	K	L	M
K		35	
L			
M	40		

$$\Rightarrow L + M = ?$$

- A) 11 B) 13 C) 15 D) 17 E) 19

8.

+	4	5	K
9			
L		x	19
12			y

$$\Rightarrow x + y = ?$$

- A) 32 B) 33 C) 34 D) 35 E) 36

9.

x	a	b	c	d
a	b			
b		c		
c			d	
d				f

$$\Rightarrow f = ?$$

- A) a^{12} B) a^{14} C) a^{16} D) a^{18} E) a^{20}

10.

+	a	b	c	d
a				f
b			e	
c		g		
d	h			

$$f + g = 12 \Rightarrow e + h = ?$$

- A) 6 B) 8 C) 10 D) 12 E) 14

11.

x	K	L	M
K			52
L			
M		26	

$$\Rightarrow K = ?$$

- A) $L/2$ B) L C) $\sqrt{L}$ D) $2L$ E) L^3

12.

+	a	b	c
a	b		
b			13
c	9		

$$\Rightarrow c = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

13.

+	x	y	z	P
x			14	
y		24		21
z				
P	12			

$$\Rightarrow x + y + z + p = ?$$

- A) 20 B) 25 C) 30 D) 35 E) 40

14.

x	a	b	c
a			
b			4a
c	8b		

$$\Rightarrow c = ?$$

- A) $\sqrt{2}$ B) $2\sqrt{2}$ C) $4\sqrt{2}$ D) $8\sqrt{2}$ E) $16\sqrt{2}$

15.

+	K	L	M	N
x	19			13
y		21		
z			18	

$$x + y + z = 37$$

$$K + L + M + N = 29$$

$$\Rightarrow x = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

16.

x	K	L	M	N
P		21		42
R	40		16	
S		15		
T			18	

$$\Rightarrow K = ?$$

- A) S B) P C) R D) T E) M

Yanıtlar / Answers

1. E	4. C	7. C	10. D	13. D	16. A
2. C	5. E	8. E	11. D	14. C	
3. B	6. C	9. C	12. A	15. E	

1.

+	a	b	c
a		17	
b			15
c	16		

$$\Rightarrow a + b + c = ?$$

- A) 20 B) 22 C) 24 D) 26 E) 28

5.

x	a	b	c
a	4		
b		9	
c			16

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 12 B) 24 C) 36 D) 48 E) 96

2.

+	a	b	c
a			7
b	5		
c			

$$\Rightarrow c - b = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

6.

x	a	b	c
a		8	
b			
c	10		

$$\Rightarrow b + c = ?$$

- A) 3 B) 6 C) 9 D) 12 E) 15

3.

+	a	b	c
a		6	
b			8
c	10		

$$\Rightarrow \frac{c+b}{a} = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

7.

x	a	b	c
a			2
b			
c		8	

$$\begin{aligned} c > a \\ \Rightarrow \frac{b-c}{a} = ? \end{aligned}$$

- A) -2 B) -1 C) 0 D) 1 E) 2

4.

+	a	b	c
a	b		
b		a^2	15
c			

$$\Rightarrow c = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

8.

x	a	b	c
a			$5c$
b	$4a$		
c		$2b$	

$$\Rightarrow a + b + c = ?$$

- A) 7 B) 9 C) 11 D) 13 E) 15

9.

+	a	b	c
a			8
b	3		
c			

x	a	b	c
a			7
b	2		
c			

$$\Rightarrow a \times b \times c = ?$$

- A) 13 B) 14 C) 15 D) 16 E) 17

10.

+	a	b	c
a	2d		
b		4e	
c			6f

x	a	b	c
a	d		
b		e	
c			f

$$\Rightarrow 6(a + b + c) = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

11.

x	a	b	c
a	25	35	40
b	35	49	56
c	40	56	64

+	a	b	c
a	d		
b		e	
c			f

$$\Rightarrow d + e + f = ?$$

- A) 36 B) 38 C) 40 D) 42 E) 44

12.

x	a	b	c
a			
b			3c
c			

+	a	b	c
a			27
b	42		
c			

$$\Rightarrow a + b + c = ?$$

- A) 22 B) 24 C) 27 D) 30 E) 33

13.

+	a	b	c
a			b+3
b	c-1		
c		a+5	

$$\Rightarrow a + b + c = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

14.

x	a	b	c
a			
b	8c		
c	8b	2a	

$$\Rightarrow a \times b \times c = ?$$

- A) 124 B) 128 C) 132 D) 136 E) 140

15.

+	a	b	c
a		$a^2 - b^2$	
b			
c		$b^2 - c^2$	

$$\Rightarrow a - c = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

16.

x	a	b	c
a		b^2	
b			
c		4	

$$\begin{aligned} b &> c \\ \Rightarrow a &= ? \end{aligned}$$

- A) 4 B) 5 C) 6 D) 7 E) 8

Yanıtlar / Answers

1. C	4. C	7. E	10. E	13. C	16. A
2. D	5. B	8. C	11. C	14. B	
3. A	6. C	9. B	12. D	15. D	

1.

x	a	b	c
a		56	
b			
c	63		

$\Rightarrow b + c = ?$

- A) 15 B) 16 C) 17 D) 18 E) 19

2.

x	a	b	c
a		b	
b			0
c	8		

$\Rightarrow a + b + c = ?$

- A) 4 B) 5 C) 7 D) 8 E) 9

3.

x	a	b	c
a		3b	
b			5c
c	24		

$\Rightarrow b \times c = ?$

- A) 28 B) 30 C) 32 D) 36 E) 40

4.

x	a	b	c
a		b^2	
b			b^4
c			

$\Rightarrow \frac{a+c}{b} = ?$

- A) 9 B) 10 C) 11 D) 12 E) 15

5.

+	a	b	c
a		18	
b			22
c	34		

$\Rightarrow a + b + c = ?$

- A) 35 B) 36 C) 37 D) 38 E) 39

6.

+	a	b	c
a		12	
b			
c	16	18	

$\Rightarrow c - b = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

7.

+	a	b	c
a			18
b		36	
c			

$\Rightarrow a + b + c = ?$

- A) 35 B) 36 C) 37 D) 38 E) 39

8.

+	a	b	c
a			18
b		8a	
c			16a

$\Rightarrow a - b + c = ?$

- A) 6 B) 8 C) 10 D) 12 E) 16

9.

+	a	b	c
a			14
b	12		
c		16	

 $\Rightarrow a^2 = ?$

- A) 9 B) 16 C) 25 D) 36 E) 49

10.

+	a	b	c
a			20
b	18		
c			16

 $\Rightarrow \frac{a \times b}{c} = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

11.

+	a	b	c
a			3x
b	6x		
c		5x	

 $\Rightarrow \frac{a+b+c}{x} = ?$

- A) 3 B) 4 C) 6 D) 7 E) 8

12.

+	a	b	c
a		3c+3	
b			8
c	3b+5		

 $\Rightarrow a = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

13.

x	a	b	c
a			72
b	54		
c		48	

 $\Rightarrow a+b+c = ?$

- A) 20 B) 21 C) 22 D) 23 E) 24

14.

+	a	b	c
a		12	
b			16
c	22		

 $\Rightarrow a-b = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

15.

+	a	b	c
a			8
b	10		
c		6	

 $\Rightarrow a+c-b = ?$

- A) 2 B) 4 C) 6 D) 7 E) 8

16.

x	a	b	c
a	4a		
b		5b	
c			6c

 $\Rightarrow a+b-c = ?$

- A) 0 B) 1 C) 2 D) 3 E) 4

Yanıtlar / Answers

1. C	4. D	7. B	10. E	13. D	16. D
2. E	5. C	8. C	11. D	14. B	
3. E	6. C	9. C	12. C	15. B	

1.

+	a	b	c
a		18	
b			13
c	35		

$$\Rightarrow a + b + c = ?$$

- A) 30 B) 31 C) 32 D) 33 E) 34

2.

-	a	b	c
a			
b	5		
c		3	

$$a > b > c$$

$$\Rightarrow a - c = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

3.

x	a	b	c
a		35	
b			42
c	30		

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

4.

+	a	b	c
a			15
b			
c			

x	a	b	c
a		35	
b			40
c			

$$\Rightarrow a + b + c = ?$$

- A) 18 B) 19 C) 20 D) 22 E) 24

5.

x	a	b	c	d
a		15		35
b			12	
c	20			28
d				

$$\Rightarrow a + b + c + d = ?$$

- A) 16 B) 17 C) 18 D) 19 E) 20

6.

x	a	b	c
a		15	
b			12
c			

$$\Rightarrow a - c = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

7.

x	a	b	c
a		12	
b			24
c	32		

$$\Rightarrow a - c + b = ?$$

- A) -1 B) 0 C) 1 D) 2 E) 3

8.

x	a	b	c
a		3c	
b			4a
c	5b		

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 30 B) 40 C) 47 D) 53 E) 60

9.

x	a	b	c
a			18
b	36		
c			

$$\Rightarrow a + b + c = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

10.

+	a	b	c
a			17
b	3c		
c		3a	

$$\Rightarrow b = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

11.

x	a	b	c
a			c^3
b			a^3
c	b^3		

$$\Rightarrow a \cdot b \cdot c = ?$$

- A) 16 B) 24 C) 22 D) 1 E) 6

12.

+	a	b	c
a		10	
b			7
c	9		

$$\Rightarrow (a + b + c)^2 = ?$$

- A) 12 B) 13 C) 14 D) 169 E) 144

13.

x	a	b	c
a		13	
b			26
c			

$$\Rightarrow b - a - c = ?$$

- A) 10 B) 9 C) 11 D) 8 E) 2

14.

+	a	b	c
a			14
b	13		
c		11	

$$\Rightarrow a = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

15.

x	a	b	c
a	64		144
b	120		
c			

$$\Rightarrow c^2 - b^2 = ?$$

- A) 1 B) 45 C) 99 D) 256 E) 32

16.

+	a	b	c
a			7
b	5		4
c			

$$\Rightarrow \frac{(a + b + c)^2}{8} = ?$$

- A) 6 B) 7 C) 9 D) 8 E) 6

Yanıtlar / Answers

1. D	4. C	7. A	10. C	13. A	16. D
2. C	5. D	8. E	11. D	14. E	
3. D	6. C	9. A	12. D	15. C	