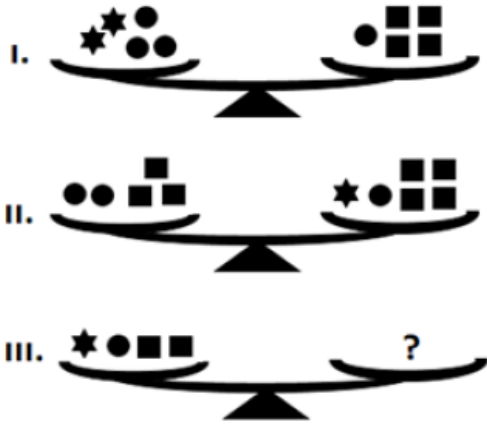


Örnek Soru 1:

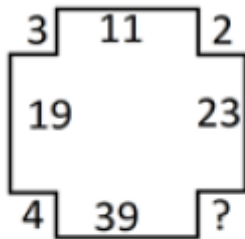


Teraziler dengededir. (Scales are in balance.)

- A)
- B)
- C)
- D)
- E)

(AYÖS 2020)

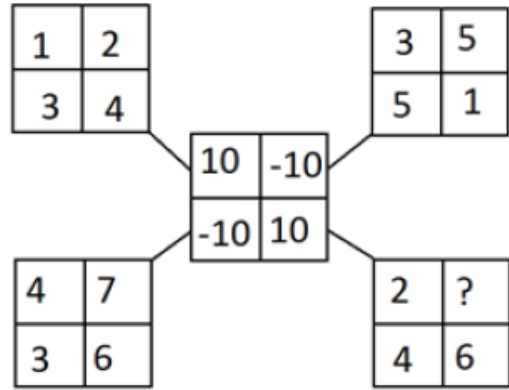
Örnek Soru 2:



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

(AYÖS 2020)

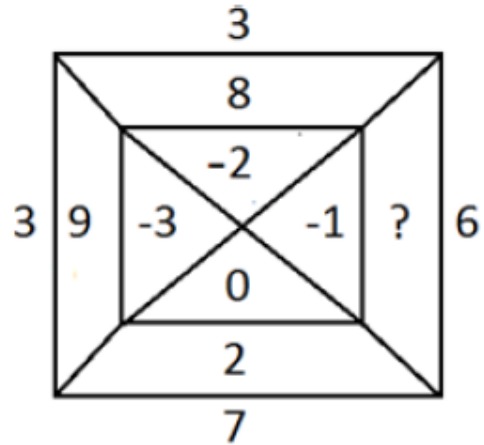
Örnek Soru 3:



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

(AYÖS 2020)

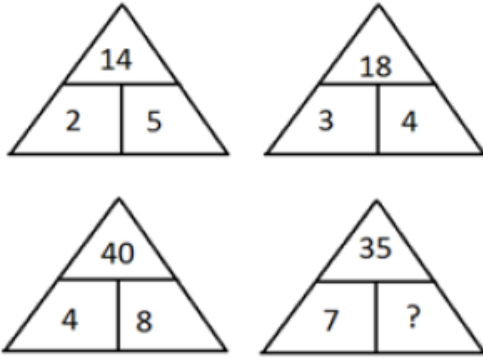
Örnek Soru 4:



- A) -2
- B) 0
- C) 4
- D) 6
- E) 8

(AYÖS 2020)

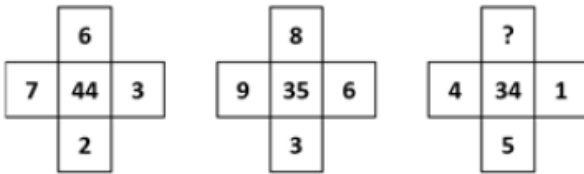
Örnek Soru 5:



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

(AYÖS 2020)

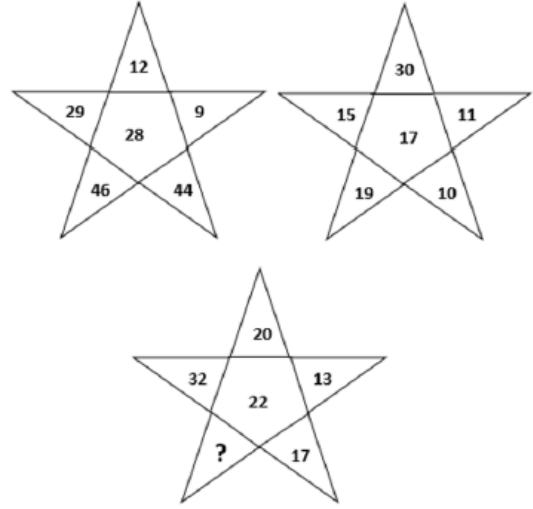
Örnek Soru 6:



- A) 2
- B) 3
- C) 5
- D) 8
- E) 9

(AYÖS 2020)

Örnek Soru 7:



- A) 13
- B) 19
- C) 23
- D) 28
- E) 32

(AYÖS 2020)

Örnek Soru 8:

$$\left. \begin{array}{l} a, b, c \in \mathbb{Z}^+ \\ a > b > c \\ a + \frac{b}{c} = 20 \end{array} \right\} \max(a + b + c) = ?$$

- A) 90
- B) 63
- C) 42
- D) 40
- E) 21

(AYÖS 2020)

Örnek Soru 9:

$$\frac{3x+12}{y-5} = \frac{5y-z}{x+3} = -\frac{2y-4z}{z+6} = k \Rightarrow k = ?$$

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

(AYÖS 2020)

Örnek Soru 11:

$$\log_5(4x+3) = (1 + \log_5 3) \log_{15}(x^2 + 2x - 5)$$

$$x = ?$$

- A) -2
- B) 0
- C) 2
- D) 4
- E) 6

(AYÖS 2020)

Örnek Soru 10:

$$P(x) = -2x^3 + x^2 + 8x + 1$$

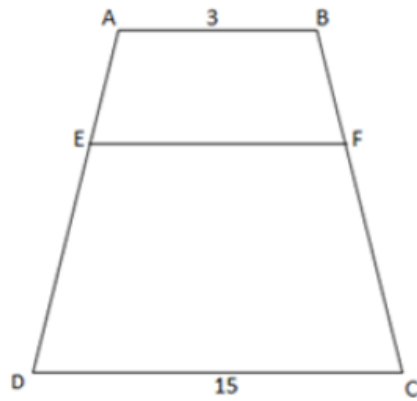
$$P(x-1) = -(x+1)Q(x-1) + k$$

$$k \in \mathbb{R} \Rightarrow Q(k) = ?$$

- A) 8
- B) 12
- C) 17
- D) 23
- E) 27

(AYÖS 2020)

Örnek Soru 12:

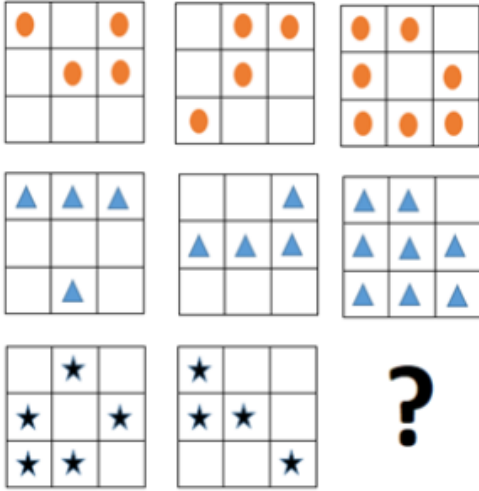


ABCD yamuk
[AB] // [EF]
3|AE| = |AD|
|AB| = 3 cm
|DC| = 15 cm
|EF| = ? cm

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

(AYÖS 2020)

Örnek Soru 13:



- A)
- B)
- C)
- D)
- E)

(AYÖS 2021)

Örnek Soru 14:

$$\begin{aligned} A, B &\subset E \\ A' &= E - A \\ B' &= E - B \end{aligned}$$

$$\left. \begin{aligned} n(E) &= 50 \\ n(A' \cap B') &= 7 \\ 3n(A - B) &= 5n(B - A) \end{aligned} \right\} \Rightarrow \min [n(A)] = ?$$

(n : Element number of the set)

- A) 15
B) 21
C) 24
D) 28
E) 30

(AYÖS 2021)

Örnek Soru 15:

$$a, b \in \mathbb{Z}^+,$$

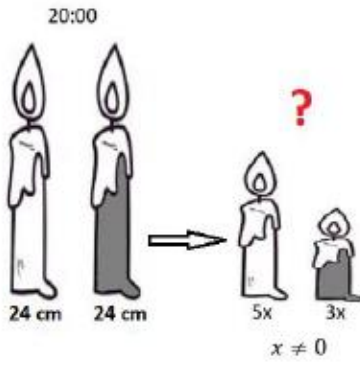
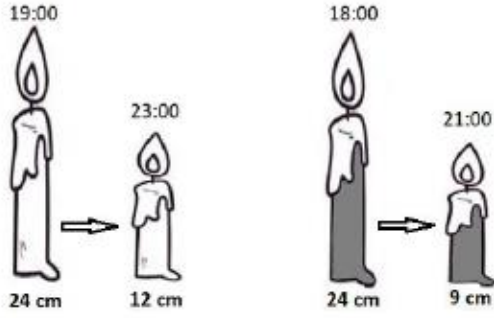
$$ab - 4a + 3b = 42$$

$$\Rightarrow \max(a) = ?$$

- A) 33
B) 27
C) 21
D) 14
E) 13

(AYÖS 2021)

Örnek Soru 16:



- A) 22:00
- B) 22:30
- C) 23:00
- D) 23:30
- E) 00:00

(AYÖS 2021)

Örnek Soru 17:

$$x \in \mathbb{R} - \{0\},$$

$$4x - \frac{1}{2x} = 6 \Rightarrow x^2 + \frac{1}{64x^2} = ?$$

- A) 9/16
- B) 2
- C) 9/4
- D) 5/2
- E) 4

(AYÖS 2021)

Örnek Soru 18:

$$a, b \in \mathbb{R},$$

$$\left. \begin{array}{l} \sqrt[3]{a} - \sqrt[3]{b} = 5 \\ ab = 1 \end{array} \right\} \Rightarrow a - b = ?$$

- A) 110
- B) 125
- C) 140
- D) 155
- E) 170

(AYÖS 2021)

Örnek Soru 19:

$$f: \mathbb{R} - \{0, 2\} \rightarrow \mathbb{R},$$

$$f(x) = \frac{3x}{x-2} \Rightarrow f(x+2) = ?$$

A) $\frac{4f(x)-6}{f(x)}$

B) $\frac{6f(x)-9}{f(x)}$

C) $\frac{4f(x)+6}{f(x)}$

D) $\frac{5f(x)-6}{f(x)}$

E) $\frac{f(x)-5}{f(x)}$

(AYÖS 2021)

Örnek Soru 20:

$$x \neq y,$$

$$\log_{\sqrt{x}} \frac{x}{y} = A \Rightarrow \log_{\sqrt{y}} \frac{y}{x} = ?$$

A) $\frac{A}{2A-4}$

B) $\frac{4}{2-A}$

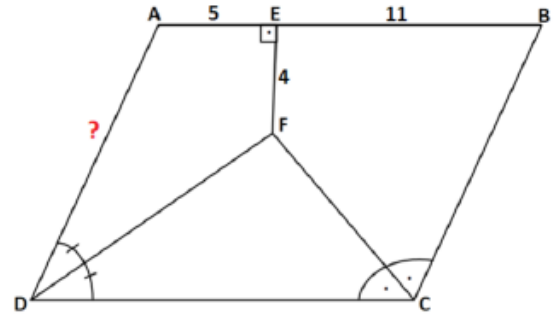
C) $\frac{2A}{A-2}$

D) $\frac{A-8}{A-2}$

E) $\frac{A+4}{4A-8}$

(AYÖS 2021)

Örnek Soru 21:



ABCD paralelkenar (parallelogram)

$$\left. \begin{array}{l} [FE] \perp [AB] \\ |EF| = 4 br \\ |AE| = 5 br \\ |EB| = 11 br \end{array} \right\} |AD| = ? br$$

- A) 8
B) 9
C) 11
D) 13
E) 15

(AYÖS 2021)

Örnek Soru 22:

$$a < 0, \quad \sqrt{3a^2} + a = \frac{12}{\sqrt{3} + 1} \Rightarrow a = ?$$

- A) $12 - 6\sqrt{3}$ B) $3 - 6\sqrt{3}$ C) $-6\sqrt{3}$
D) -6 E) -3

(AYÖS 2022)

Örnek Soru 23:

$$f: \mathbb{R} \rightarrow \mathbb{R},$$

$$f(x) = |x - 4| + 12 - |2x|$$

$$f(x_1) = f(x_2) = 0 \Rightarrow x_1 + x_2 = ?$$

- A) -8 B) -4 C) 0 D) 12 E) 16

(AYÖS 2022)

Örnek Soru 24:

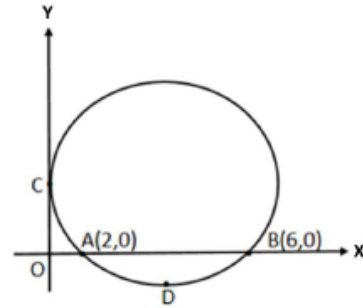
$$i^2 = -1,$$

$$(1 + i)z + 1 - i = i - 1 \Rightarrow |z| = ?$$

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

(AYÖS 2022)

Örnek Soru 25:



xoy is a perpendicular coordinate system

The circle is tangent to y-axis at C.

$$|\widehat{ADB}| = ?$$

- A) π B) $\frac{4\pi}{3}$ C) $\frac{3\pi}{2}$ D) $\frac{5\pi}{3}$ E) 2π

(AYÖS 2022)

CEVAP ANAHTARI:

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