TR-YÖS

TARAMA TESTİ 1

ÇÖZÜM

1984 TASARI
TASARI EĞİTİM YAYINLARI

ÇÖZÜMLERİ

1. $5 - [(18 : 3) + 2 \cdot 4 - 8 : (-4)]$

$= 5 - [6 + 8 + 2]$

$= 5 - 16$

$= -11$

Cevap: E

2. $9 - \boxed{2} = 7$

$\ast - \boxed{2} = 3 \Rightarrow \ast = 5$

$\triangle - 5 = \ast \Rightarrow \triangle - 5 = 5 \Rightarrow \triangle = 10$

$\Rightarrow \ast + \triangle + \square = 5 + 10 + 2 = 17$

Cevap: C

3. $2a + 3b = 22$

$8 \quad 2 \rightarrow a.b = 8.2 = 16$

$5 \quad 4 \rightarrow a.b = 5.4 = 20$

$2 \quad 6 \rightarrow a.b = 2.6 = 12$

$\Rightarrow \max(a.b) = 20$

Cevap: D

4. $-5 < a < b < 0 < c < 4$

$\downarrow \quad \downarrow \quad \downarrow$

$-4 \quad -3 \quad 1$

$\Rightarrow \min(a + b + c) = -4 - 3 + 1 = -6$

Cevap: C

5. $x.y = 13 \Rightarrow x = 1$ ve $y = 13$

$x.z = 23 \Rightarrow x = 1$ ve $z = 23$

$\Rightarrow x + y + z = 1 + 13 + 23 = 37$

Cevap: B

6. $ab + bc + ca = 187$

$10a + b + 10b + c + 10c + a = 187$

$11a + 11b + 11c = 187$

$11(a + b + c) = 187$

$a + b + c = 17$

Cevap: C

7. $ab = 5(a + b)$

$10a + b = 5a + 5b$

$5a = 4b$

$\Rightarrow a = 4$ ve $b = 5$

$\Rightarrow ab = 45$

Cevap: B

8.

$$\begin{array}{r} A\,B\,C \\ B\,C\,A \\ +\quad C\,A\,B \\ \hline 2\,4\,4\,2 \end{array} \Rightarrow ABC + BCA + CAB = 2442$$

$111.A + 111.B + 111.C = 2442$

$111(A + B + C) = 2442$

$A + B + C = 22$

$\downarrow \quad \downarrow \quad \downarrow$

$9 \quad 9 \quad 4$

$\Rightarrow \max(ABC) = 994$

Cevap: D

9. $DEF - ABC$

$100D + 10E + F - 100A - 10B - C$

$100\underbrace{(D - A)}_{2} + 10\underbrace{(E - B)}_{-3} + \underbrace{F - C}_{-4}$

$200 - 30 - 4 = 166$

Cevap: E

10.

$$\begin{array}{r} K\,L\,M \\ \times\quad 2\,3 \\ \hline \bullet\bullet\bullet\bullet \\ +\quad 9\,1\,2 \\ \hline \bullet\bullet\bullet\bullet\bullet \end{array} \rightarrow 2(KLM) = 912$$

$KLM = 456$

$\Rightarrow K + L - M = 4 + 5 - 6$

$= 9 - 6$

$= 3$

Cevap: C

TASARI EĞİTİM YAYINLARI

Diğer Sayfaya Geçiniz.

11. $5 - 4(2x + 7) - 4 = x$

$5 - 8x - 28 - 4 = x$

$-8x - 27 = x$

$-27 = 9x$

$-3 = x$

Cevap: C

12. $\dfrac{4}{\boxed{1+\dfrac{3}{2+\dfrac{x}{4}}=2}}=2 \quad \rightarrow \quad 1+\dfrac{3}{\boxed{2+\dfrac{x}{4}=2}}=2$

$\dfrac{3}{\boxed{2+\dfrac{x}{4}=3}}=1 \quad \rightarrow \quad 2+\dfrac{x}{4}=3$

$\dfrac{x}{4}=1 \Rightarrow x=4$

Cevap: D

13. $\dfrac{1+0,3x}{0,2+0,5x} \not= \dfrac{2}{3}$

$3 + 0,9x = 0,4 + x$

$2,6 = 0,1.x$

$x = 26$

Cevap: D

14. $\dfrac{1+\dfrac{a}{x}}{\dfrac{b}{x}-1}=\dfrac{b}{a}$

$\dfrac{\dfrac{x+a}{x}}{\dfrac{b-x}{x}}=\dfrac{b}{a} \Rightarrow \dfrac{(a+x)}{\cancel{x}}\cdot\dfrac{\cancel{x}}{(b-x)}=\dfrac{b}{a}$

$a^2 + ax = b^2 - bx$

$ax + bx = b^2 - a^2$

$x\cancel{(a+b)} = (b-a)\cancel{(a+b)}$

$x = b - a$

Cevap: E

15. $a + b + c = 8$

$+ \quad a + b - c = 4$

$2(a + b) = 12$

$a + b = 6$

Cevap: C

16. $2x - yz = 14$

$+ \quad 2y - xz = 16$

$2x + 2y - yz - xz = 30$

$2(x + y) - z(x + y) = 30$

$(x + y).(2 - z) = 30$

5

$\Rightarrow \quad 2 - z = 6$

$z = -4$

Cevap: E

17. $\underbrace{a(x + 3y - 40)}_{0} + \underbrace{b(3x - y)}_{0} = 0$

$x + 3y - 40 = 0$

$+ \quad 3/ \quad 3x - y = 0 \rightarrow 12 - y = 0$

$10x - 40 = 0 \qquad y = 12$

$10x = 40$

$x = 4$

$\Rightarrow x.y = 4.12 = 48$

Cevap: A

18. $x.y = 3$

$x \quad x.z = 2$

$\underbrace{x.z}_{2}.y^2 = 12 \Rightarrow y^2 = 6$

$y = \sqrt{6}$

Cevap: A

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19. $x + y = 7 \Rightarrow x + 5 = 7 \Rightarrow x = 2$

$y + z = 6 \Rightarrow y + 1 = 6 \Rightarrow y = 5$

$+ \quad x + z = 3$

$2(x + y + z) = 16 \rightarrow \overbrace{x + y}^{7} + z = 8$

$\downarrow$

1

$K = 2x$

$L = 2y \Rightarrow K + L + M = 2(x + y + z)$

$M = 2z \qquad = 2(2 + 5 + 1)$

$= 2.8$

$= 16$

Cevap: E

20. $3x + \frac{5}{y} = a \Rightarrow \frac{3xy + 5}{y} = a \Rightarrow 3xy + 5 = ay$

$3y + \frac{5}{x} = 6 \Rightarrow \frac{3xy + 5}{x} = 6 \Rightarrow 3xy + 5 = 6x$

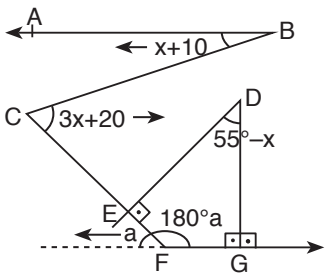
$\Rightarrow ay = 6x \Rightarrow \frac{x}{y} = \frac{a}{6} \Rightarrow \frac{4}{3} = \frac{a}{6}$

$24 = 3a$

$a = 8$

Cevap: C

21.



$a + x + 10 = 3x + 20$

$a = 2x + 10$

$55° - x + \cancel{90°} + \cancel{90°} + \cancel{180°} - a = \cancel{360°}$

$55 - x - (2x + 10) = 0$

$55 - x - 2x - 10 = 0$

$45 - 3x = 0$

$45 = 3x$

$x = 15°$

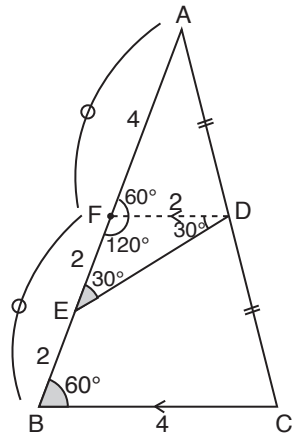
$\Rightarrow m(\widehat{CFG}) = 180° - a$

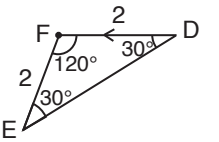
$= 180° - 40$

$= 140°$

Cevap: C

22.

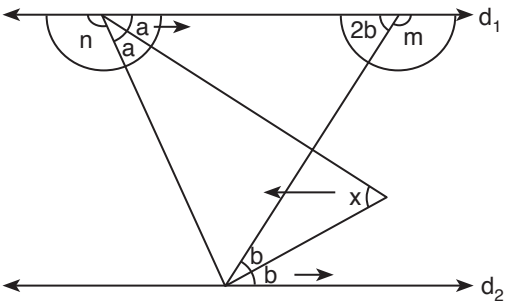




$\Rightarrow m(\widehat{AED}) = 30°$

Cevap: C

23.



$n + 2a = 180°$

$+ \quad m + 2b = 180°$

$m + n + 2(a + b) = 360°$

$220° + 2(a + b) = 360°$

$2(a + b) = 140°$

$a + b = 70°$

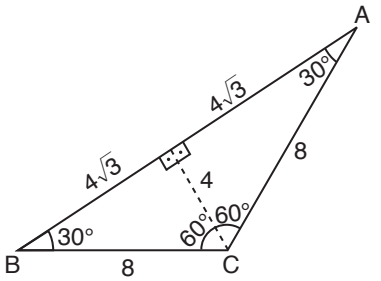
$\Rightarrow x = a + b = 70°$

Cevap: D

TASARI EĞİTİM YAYINLARI

Diğer Sayfaya Geçiniz.

24.



$\Rightarrow m(\widehat{ACB}) = 120°$

Cevap: E

25. $-5 + 2^0 = -4$

$-4 + 2^1 = -2$

$-2 + 2^2 = 2$

$2 + 2^3 = 10$

Cevap: D

26. 32 $\Rightarrow$ $3.2 = 6$, $3 - 2 = 1$ $\Rightarrow$ 61

43 $\Rightarrow$ $4.3 = 12$, $4 - 3 = 1$ $\Rightarrow$ 121

95 $\Rightarrow$ $9.5 = 45$, $9 - 5 = 4$ $\Rightarrow$ 454

87 $\Rightarrow$ $8.7 = 56$, $8 - 7 = 1$ $\Rightarrow$ 561

Cevap: B

27. $2 \triangle 1 = 2$ $(2.1 > 0)$

$2 \triangle (-1) - 1$ $(2.(-1) < 0)$

$\Rightarrow (2 \triangle 1) * (2 \triangle (-1)) = 2 * (-1) = 2^{-1} = \frac{1}{2}$

$\Rightarrow \frac{1}{2} \triangle (-1) = -1$ $\left(\frac{1}{2} \cdot -1 < 0\right)$

Cevap: A

28. $2.\textcircled{2} + 12 = 16$

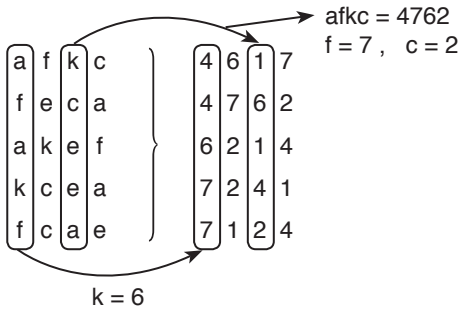
$7.\textcircled{2} + 11 = 25$

$14.\textcircled{2} + 6 = 34$

$9.\textcircled{2} + 13 = 31$

Cevap: B

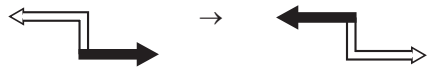
29.



$\Rightarrow$ eckf = –267 = 1267

Cevap: A

30.



Cevap: C

31. $2.4 + 1 = 9$

$2.9 + 1 = 19$

$2.19 + 1 = 39$

$2.39 + 1 = 79$

$2.79 + 1 = 159$

Cevap: A

32. 242 $\rightarrow$ $2.4.2 + 2 + 4 + 2 = 24$

137 $\rightarrow$ $1.3.7 + 1 + 3 + 7 = 32$

451 $\rightarrow$ $4.5.1 + 4 + 5 + 1 = 30$

972 $\rightarrow$ $9.7.2 + 9 + 7 + 2 = 144$

Cevap: D

TASARI EĞİTİM YAYINLARI

33. $5 \triangle 3 = 5.3 + 1 = 16 \quad (5 \geq 3)$

$2 \triangle 4 = 2 * 4 = |2 - 4| = 2$

$\Rightarrow \quad \frac{5\triangle 3}{2\triangle 4} = \frac{16}{2} = 8$

Cevap: E

34. $1 \rightarrow 2 \rightarrow 6 \rightarrow 42$

$1 + 1^2 = 2$

$2 + 2^2 = 6$

$6 + 6^2 = 42$

$42^2 + 42 = 1806$

Cevap: D

35. $3\ 1\ 4 \rightarrow 31 + 41 = 72$

$7\ 2\ 8 \rightarrow 72 + 82 = 154$

$6\ 5\ 2 \rightarrow 65 + 25 = 90$

$2\ 6\ 4 \rightarrow 26 + 46 = 72 = x2 \Rightarrow x = 7$

$3\ 7\ 1 \rightarrow 37 + 17 = 54 = 5y \Rightarrow y = 4$

$8\ 5\ 6 \rightarrow 85 + 65 = 150 = 1z0 \Rightarrow z = 5$

$x + y + z = 7 + 4 + 5 = 16$

Cevap: C

36.

Δ	∇	○	□	∃		8	5	7	3	7
□	∃	∇	○	Δ		5	3	8	7	4
∇	□	Δ	∃	○		3	7	5	4	8
○	Δ	∃	∇	□		7	4	3	8	5
∃	○	∇	Δ	∇		4	8	7	5	3

$\nabla = 7$

$\Rightarrow \quad ○\ ∃\ Δ\ ∇\ □ = __\ __\ __\ \underset{7}{__}\ __ = 58374$

Cevap: C

37. Ş A N L I U R F A = 732198463

$\Rightarrow$ N R A L + F I U = 2431 + 698 = 3129

= ALNI

Cevap: B

38.

O	S	M	A	N		1	7	5	9	3
S	O	N	A	M		9	1	7	3	5
M	A	S	N	O		3	5	1	7	9
N	M	A	O	S		5	3	9	7	1

A = 7

$\Rightarrow$ MASNO = 17593

M = 1

S = 5

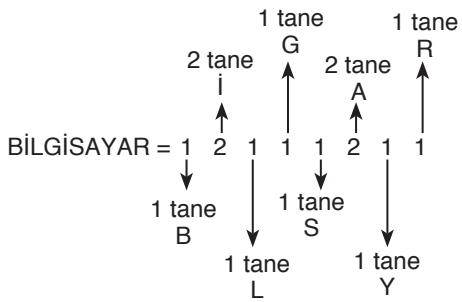
N = 9

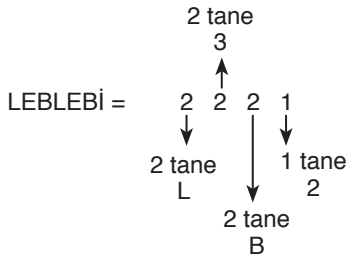
O = 3

$\Rightarrow$ NASOM = 97531

Cevap: E

39.





Cevap: E

TASARI EĞİTİM YAYINLARI

Diğer Sayfaya Geçiniz.

40. $\{\nabla, \triangle\} \rightarrow \{s, r\}$
$\{\nabla, \square\} \rightarrow \{n, r\}$ $\Rightarrow \nabla = r$

$\{\nabla, \triangle\} \rightarrow \{s, r\}$
$\{\triangle, \otimes\} \rightarrow \{p, s\}$ $\Rightarrow \triangle = s$, $\otimes = p$

$\{\nabla, \square\} \rightarrow \{n, r\}$ $\Rightarrow \square = n$

$\{\bigcirc, \ominus\} \rightarrow \{k, t\}$
$\{\ominus, \odot\} \rightarrow \{m, k\}$ $\Rightarrow \ominus = k$, $\odot = m$

$\Rightarrow \{\otimes, \odot\} = \{p, m\}$

Cevap: A

41. $2 + 1^2 = 3$
$3 + 2^2 = 7$
$7 + 3^2 = 16$
$16 + 4^2 = 32$
$32 + 5^2 = 57$

Cevap: E

42. $5 + ② = 7$
$7 + ③ = 10$
$10 + ④ = 14$
$14 + ⑤ = 19$
$19 + ⑥ = 25$
$25 + ⑦ = 32$

Cevap: D

43.
- $\bigcirc\ \bigcirc\ \bigcirc = 36 \Rightarrow 12 + 12 + 12 = 36$, $\bigcirc = 12$
- $\bigcirc\ \bigcirc\ \square = 31 \Rightarrow 12 + 12 + \square = 31$, $\square = 7$
- $\triangle\ \triangle\ \square = 25 \Rightarrow \triangle + \triangle + 7 = 25$, $\triangle = 9$

$\Rightarrow \triangle\ \square\ \bigcirc = 9 + 7 + 12 = 28$

Cevap: A

44. $62 \rightarrow 6^2 + 2^3 = 44$
$25 \rightarrow 2^2 + 5^3 = 129$
$34 \rightarrow 3^2 + 4^3 = 73$
$46 \rightarrow 4^2 + 6^3 = 232$
$52 \rightarrow 5^2 + 2^3 = 33$

Cevap: E

45.

3	0	7	9		V	A	N	K	
5	1	7	8		S	A	G	E	
7	9	3	5		N	E	V	A	
1	8	0	3		G	S	E	N	
8	9	1	0		K	G	V	S	

A = 9

$\Rightarrow$ 3 = N, O = E, 7 = V, 9 = A

GNKA = = ___ 3 ___ 9 = 1359

Cevap: C

46. $2 * 137 = 2.(1.3 + 7) = 20$
$5 * 321 = 5.(3.2 + 1) = 35$
$7 * 453 = 7.(4.5 + 3) = 161$
$6 * 542 = 6.(5.4 + 2) = 132$

Cevap: B

47. BAKLAVA = 1 3 1 1 1

3 tane A, 1 tane L, 1 tane B, 1 tane V, 1 tane K

Cevap: D

48. $3.5 - 7 = 8$
$3.8 - 7 = 17$
$3.17 - 7 = 44$
$3.44 - 7 = 125$
$3.127 - 7 = 368$

Cevap: D

TASARI EĞİTİM YAYINLARI

49. 2,1 + 0,2 = 2,3 (2.1 = 2)

2,3 + 0,6 = 2,9 (2.3 = 6)

2,9 + 1,8 = 4,7 (2.9 = 18)

4,7 + 2,8 = 7,5 (4.7 = 28)

Cevap: A

50. 13 , 18 , 15 , 20 , 17 , X , 19 , 24

(–3, –3; +5, +5, +5)

$\Rightarrow$ x = 17 + 5 = 22

Cevap: D

TASARI EĞİTİM YAYINLARI

Diğer Sayfaya Geçiniz.

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