1. 1) $x + \dfrac{6}{5} + y = \dfrac{3}{15}$

$\boxed{x + y = -1}$

2) $x + y = z$

$\boxed{-1 = z}$

$x + y = \dfrac{z}{2}$

$\underbrace{-1} + \underbrace{-\dfrac{1}{2}} = -\dfrac{3}{2}$

2. $\dfrac{0,075}{0,150} + \dfrac{0,1}{5,0} = \dfrac{75}{150} + \dfrac{1}{50}$

$= \dfrac{78}{150} = \dfrac{52}{100} = 0,52$

Cevap: B

3. $3^{(a-2).(a-1).a} = 3^{a^3 - 3a^2 + 2a}$

$= 3^{a^3}.\left(3^{a^2}\right)^{-3}.\left(3^a\right)^2$

$= z.y^{-3}.x^2$

Cevap: C

4. $\dfrac{\dfrac{2\sqrt{2}}{\sqrt{10}} + \dfrac{3\sqrt{2}}{\sqrt{10}}}{\dfrac{5\sqrt{5}}{10} - \dfrac{3\sqrt{5}}{10}} = \dfrac{\dfrac{5\sqrt{2}}{\sqrt{10}}}{\dfrac{2\sqrt{5}}{10}} = \dfrac{5\sqrt{2}}{\sqrt{10}} \cdot \dfrac{10}{2\sqrt{5}} = 5$

Cevap: B

5.
$$\begin{array}{r} {\color{red}1\,0}\\ C\,B\,A \\ -\quad C\,A \\ \hline {\color{red}0}A\,B \to {\color{red}0} \end{array}$$

Cevap: A

6. 46a4b   45 ile   kalan   34

$\dfrac{5}{4} \qquad \dfrac{9}{7}$

46a44   46a49
  7   2

Cevap: D

7.

A	B
x tane	y tane
(36)	(42)
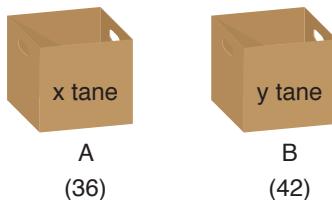
$36x + 42y = 1 + 2 + \ldots + 75$

$= \dfrac{75.76}{2} = 75.38$

$-36/\quad x + y = 75$
_____

$6y = 2.75$

$y = 25$

$\boxed{x = 50}$

Cevap: E

8. $\dfrac{a}{b+c+d} = 2 \Rightarrow \dfrac{b+c+d}{a} = \dfrac{1}{2}$

$\Rightarrow \dfrac{b+c}{a} + \dfrac{d}{a} = \dfrac{1}{2}$

$\dfrac{a}{b+c} = \dfrac{2}{3} \Rightarrow \dfrac{b+c}{a} = \dfrac{3}{2}$ (yerine yazılırsa)

$\dfrac{3}{2} + \dfrac{d}{a} = \dfrac{1}{2}$

$\dfrac{d}{a} = -1 \to \dfrac{a}{d} = -1$

Cevap: A

Diğer Sayfaya Geçiniz.

9.

$4k < 160$ gr	$6k > 180$
$K < 40$ gr ... (*)	$K > 30$ gr

$$30 < K < 40$$
$$K = 35$$

Cevap: B

13.

$$1.2.3 \rightarrow 3!$$
$$2.3.4 \rightarrow 4!$$
$$1.4.6 \rightarrow 4!$$
$$4.5.6 \rightarrow 5!$$

Cevap: D

10. $a^2 - b^2 + 4a - 4b = (a-b)(a+b) + 4(a-b)$

$$= \underbrace{(a-b)}_{T}\ \underbrace{(a+b+4)}_{T} \Rightarrow T$$

✗ I) $b - a \rightarrow T$ $a - b = T$

✗ II) $a + b \rightarrow T$ Ç   T

✔ III) $3ab \rightarrow$ Ç   T   Ç   olabilir.

Cevap: C

14.

$a^2 - b^2 = 13$	$b^2 - c^2 = 32$
$(a-b)(a+3) = 13$	$6^2 - c^2 = 32$
$\quad 1 \qquad 13$	$c^2 = 4$
$a = 7$	$c = 2$
$b = 6$	

$$7.6.2 = 84$$

Cevap: D

11. $2m + m6 + mn = 2mm - m6n$

$$26 + 21m + n = 140 - 89m - n$$

$$110m + 2n = 114$$
$$\quad\ 1 \qquad 2$$
$$n = 2$$

Cevap: B

15. $x - y - z = 0 \Rightarrow x = y + z$

$$xy = 5$$
$$+ \quad xz = 4$$
$$\overline{\quad x(y+z) = 9\quad}$$
$$\underbrace{\qquad}_{x}$$

$$x^2 = 9$$
$$x = 3$$

Cevap: A

12.

$\dfrac{24}{11+13}$	$\dfrac{35}{\downarrow}$	$\dfrac{46}{3+43}$	$\dfrac{66}{5+61}$	$\dfrac{100}{3+97}$
$5+19$	35 iki asal sayının toplamı şeklinde yazılamaz.	$5+41$		

Cevap: B

Diğer Sayfaya Geçiniz.