CEVAPLI TEST-1

1) $\dfrac{4,8}{x} = \dfrac{0,72}{4,8}$ ise x=?

A) 32   B) 45   C) 48   D) 52   E) 72

2) a,b$\in$Z^{+} , $\dfrac{a}{4} = \dfrac{b}{5} = k$ ve a+b=36 ise $\sqrt{4a} + \sqrt{5b} = ?$

A) 9   B) 18   C) 36   D) 42   E) 56

3) $\dfrac{a}{4} = \dfrac{b}{5} = \dfrac{c}{7}$ ve a–b+2c=39 ise 3a–b=?

A) 15   B) 18   C) 21   D) 36   E) 45

4) $\dfrac{a}{3} = \dfrac{b}{5}$ ise $\dfrac{a^2 + b^2}{ab} = ?$

A) $\dfrac{3}{12}$ B) $\dfrac{15}{34}$ C) 1   D) $\dfrac{34}{15}$ E) 3

5) $\dfrac{a}{b} = \dfrac{c}{d} = 5$ ise $\left(\dfrac{a+b}{c}\right)\left(\dfrac{c+d}{b}\right) = ?$

A) $\dfrac{15}{12}$ B) $\dfrac{18}{5}$ C) 1   D) $\dfrac{27}{5}$ E) $\dfrac{36}{5}$

6) $\dfrac{x}{x+y} = 3$ ise $\dfrac{y}{x+y} = ?$

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

7) $a - \dfrac{1}{b} = 4$, $b - \dfrac{1}{a} = 12$ ise a/b=?

A) $\dfrac{1}{3}$ B) $\dfrac{2}{3}$ C) 1   D) $\dfrac{3}{2}$ E) 2

8) $\dfrac{a}{b} = \dfrac{c}{d} = \dfrac{e}{f} = 5$ ise $\dfrac{a^2}{e^2} \cdot \dfrac{f^2}{d} \cdot \dfrac{c}{b^2} = ?$

A) 1   B) 5   C) 25   D) 125   E) 625

9) $\dfrac{a+b}{a} = \dfrac{7}{4}$, $\dfrac{b+2c}{c} = \dfrac{9}{4}$ ve a+b+c=38 ise b=?

A) 6   B) 8   C) 9   D) 24   E) 30

10) $\dfrac{a}{b} = \dfrac{2}{3}$, $\dfrac{b}{c} = \dfrac{4}{5}$ ise a,b,c sayıları sırasıyla hangi sayılarla orantılıdır?

A) 15,12,8   B) 8,15,12   C) 15,8,12   D) 12,15,8   E) 8,12,15

11) $\dfrac{x}{3} = \dfrac{y}{5}$ ise $\dfrac{\sqrt{3x} + \sqrt{5y}}{\sqrt{3x} - \sqrt{5y}} = ?$

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

12) $\dfrac{x+y-z}{8} = \dfrac{x-z}{7} = \dfrac{y+z}{6}$ ise

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

A) -1   B) 0   C) 2   D) 6   E) 8

13) $x,y,z \in R^-$, $\dfrac{x}{0,3} = \dfrac{y}{0,6} = \dfrac{z}{0,8}$ ise x,y,z 'yi sıralayın

A) x<y<z   B) x<z<y   C) y<z<x
                 D) y<x<z   E) z<y<x

14) $\dfrac{a}{b} = \dfrac{2}{3}$, $\dfrac{b}{c} = \dfrac{6}{5}$, $\dfrac{c}{d} = \dfrac{10}{7}$ ise $\dfrac{a+d}{b+c} = ?$

A) $\dfrac{15}{22}$ B) $\dfrac{18}{19}$ C) $\dfrac{17}{20}$ D) $\dfrac{20}{17}$ E) $\dfrac{22}{15}$

15) $x,y,z \in Z^+$, x:y:z=2:3:5 ve $\sqrt{x.y + x.z} = 20$ ise x+z−y=?

A) 2   B) 5   C) 15   D) 20   E) 25

16) $\dfrac{a+b}{b} = \dfrac{4}{3}$, $\dfrac{b+c}{c} = \dfrac{7}{5}$ ise $\dfrac{a+b+c}{b+c} = ?$

A) $\dfrac{21}{23}$ B) 1   C) $\dfrac{23}{21}$ D) $\dfrac{15}{7}$ E) $\dfrac{28}{17}$

17) $a,b,c \in R^-$, $k \in Z$ ve $\dfrac{a}{0,3} = \dfrac{b}{0,5} = \dfrac{c}{0,8} = k$ ise a+b+c'nin en büyük tamsayı değeri kaçtır?

A) -3   B) -8   C) -12   D) -16   E) -20

18) $\dfrac{a+b}{5} = \dfrac{a-c}{7} = \dfrac{c-b}{8}$ ise $\dfrac{b}{c} = ?$

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

19) a:b:c=x:y:z=3 orantısında 2a−b+c=9 ve y−z=1 ise x=?

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

20) $\dfrac{a}{2} = \dfrac{b}{5} = \dfrac{c}{3} = \dfrac{3a - 2b + c}{2x - 7}$ ise x=?

A) 3   B) 5   C) 7   D) 9   E) 10

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