

$$\begin{aligned}
 1. \quad & \frac{2,67 - 0,24}{1,8 + 0,9} \cdot \frac{18}{1000} \\
 & = \frac{2,43}{2,7} \cdot \frac{18}{1000} \Rightarrow \frac{\overset{9}{243}}{\underset{10}{27}} = \frac{9}{10} \cdot \frac{18}{1000} \\
 & = \frac{9}{10} \cdot \frac{1000}{18} = \frac{100}{2} = 50 \text{ olur.}
 \end{aligned}$$

Cevap: B

$$\begin{aligned}
 2. \quad & \frac{\frac{4}{10}}{\frac{4}{1000}} \cdot \left(\frac{576}{1000} - \frac{28}{100} \right) \\
 & = 1000 \cdot \left(\frac{576 - 280}{1000} \right) \\
 & \Rightarrow 1000 \cdot \left(\frac{296}{1000} \right) = 296
 \end{aligned}$$

Cevap: E

$$\begin{aligned}
 3. \quad & \frac{(0,6)^2}{(1,2)^2} - \frac{(0,8)^2}{(0,32)^2} \\
 & = \left(\frac{0,6}{1,2} \right)^2 - \left(\frac{0,8}{0,32} \right)^2 \\
 & = \left(\frac{1}{2} \right)^2 - \left(\frac{5}{2} \right)^2 \\
 & = \frac{1}{4} - \frac{25}{4} \\
 & = -\frac{24}{4} \\
 & = -6
 \end{aligned}$$

Cevap: B

$$\begin{aligned}
 4. \quad & \bullet \frac{0,09}{0,6} = \frac{9}{60} = \frac{3}{20} \\
 & \bullet \frac{3}{20} \text{ sayısı } 40 \text{ ile çarpılırsa sonuç tamsayı olur.} \\
 & \Rightarrow \frac{3}{20} \cdot 40 = 6
 \end{aligned}$$

Cevap: E

$$\begin{aligned}
 5. \quad & \left(\frac{(0,2)^2}{0,8} + \frac{(0,1)^2}{0,2} \right) : 0,02 \\
 & \Rightarrow \left(\frac{0,04}{0,8} + \frac{0,01}{0,2} \right) : \frac{2}{100} \\
 & \Rightarrow \left(\frac{4}{80} + \frac{1}{20} \right) : \frac{2}{100} \Rightarrow \left(\frac{1}{20} + \frac{1}{20} \right) : \frac{2}{100} \\
 & \Rightarrow \frac{2}{20} \cdot \frac{100}{2} = \frac{10}{2} = 5
 \end{aligned}$$

Cevap: C

$$6. \quad \underbrace{m + m + \dots + m}_{n \text{ tane}} = m \cdot n \text{ şeklinde bulunur.}$$

O halde;

$$\begin{aligned}
 \underbrace{(0,4)^2 + (0,4)^2 + \dots + (0,4)^2}_{200 \text{ tane}} &= (0,4)^2 \cdot 200 \\
 &= \frac{16}{100} \cdot 200 = 32
 \end{aligned}$$

Cevap: E

$$7. \quad x \left(+ \frac{11}{20} \right) = 1 \text{ yazılabilir.}$$

$$x = 1 - \frac{11}{20}$$

$$x = \frac{9}{20} = \frac{45}{100} = 0,45 \text{ olur.}$$

Cevap: C

8. $2,2.x = 5$

$$44,44.x = a \Rightarrow \frac{2,2.x}{44,44.x} = \frac{5}{a}$$

$$\frac{220}{4444} = \frac{5}{a}$$

$$220.a = 5.4444$$

$$220a = 22220$$

$$a = 101$$

Cevap: C

9. $\frac{xy}{0,0xy} + \frac{xy}{0,xy} = \frac{xy000}{xy} + \frac{xy00}{xy}$

$$= 1000 + 100$$

$$= 1100$$

Cevap: B

10. $2,5 = a - \frac{b}{4}$

$$2,5 = \frac{4a - b}{4}$$

$$4.2,5 = 4a - b$$

$$4a - b = 10$$

$$\downarrow \quad \downarrow$$

$$3 \quad 2 \rightarrow a + b = 5$$

$$4 \quad 6 \rightarrow a + b = 10$$

$$5 \quad 10 \rightarrow a + b = 15$$

$$6 \quad 14 \rightarrow a + b = 20$$

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a + b toplamı 5'in katlarıdır.

Cevap: D

11. $\frac{0,0n}{x} = \frac{n.x}{4}$

$$\frac{n}{100.x} = \frac{n.x}{4}$$

$$4 = 100x^2$$

$$x^2 = \frac{4}{100} \Rightarrow x = \frac{1}{5}$$

Cevap: C

12. $\frac{7,2}{0,x} + \frac{4,3}{0,x} + \frac{5,3}{0,x}$

$$= \frac{72}{x} + \frac{43}{x} + \frac{53}{x}$$

$$= \frac{168}{x} \quad (x = 8 \text{ için})$$

$$= \frac{168}{8}$$

$$= 21 \text{ olur.}$$

Cevap: B

13. $\frac{1}{0,x} + \frac{1}{0,0x} = 22.y$

$$\frac{10}{x} + \frac{100}{x} = 22.y$$

$$\frac{110}{x} = 22.y$$

$$22x.y = 110$$

$$x.y = 5$$

$$1.5$$

$$\Rightarrow x + y = 1 + 5 = 6 \text{ olur.}$$

Cevap: D

14. $\frac{ab - a,b}{ba + b,a} = \frac{63}{44}$

$$\frac{ab - \frac{ab}{10}}{ba + \frac{ba}{10}} = \frac{63}{44} \Rightarrow \frac{10ab - ab}{10ba + ba} = \frac{63}{44}$$

$$\frac{9.ab}{11.ba} = \frac{63}{44} \Rightarrow 4(ab) = 7(ba)$$

$$40a + 4b = 70b + 7a$$

$$33a = 66b$$

$$a = 2b$$

$$\Rightarrow \frac{a}{b} = \frac{2b}{b} = 2 \text{ olur.}$$

Cevap: A