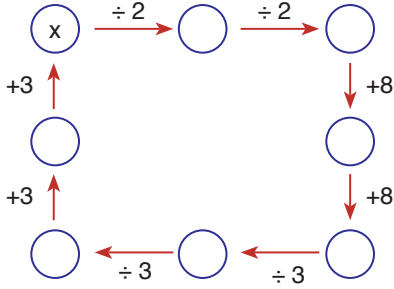


1.



işlemler sırayla yapılırsa

$$\left(x \cdot \frac{1}{2} \cdot \frac{1}{2} + 8 + 8\right) \frac{1}{3} \cdot \frac{1}{3} + 3 + 3 = x$$

$$\left(\frac{x}{4} + 16\right) \cdot \frac{1}{9} + 6 = x$$

$$\frac{x+64}{4} \cdot \frac{1}{9} + 6 = x$$

$$\frac{x+64}{36} = x - 6 \Rightarrow x + 64 = 36x - 216$$

$$280 = 35x$$

$$x = 8 \text{ olur.}$$

Cevap: B

2.

Turuncu kalem x cm

Yeşil kalem y cm

Pembe kalem z cm

Mavi kalem a cm

Sarı kalem b cm

$$\Rightarrow x + b = y + z + a$$

$$x + b + y + z + a = 42$$

$$x + b + x + b = 42$$

$$x + b = 21 \text{ olur.}$$

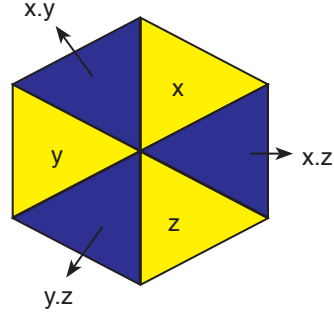
$$\bullet x < y < z < a < b$$

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

$$5 \quad \underbrace{6 \quad 7 \quad 8} \quad 16 \rightarrow \text{en az}$$

Cevap: D

3.



$$\Rightarrow x \cdot y = 36 \Rightarrow \frac{x}{z} = \frac{3}{4}$$

$$y \cdot z = 48$$

$$\Rightarrow x \cdot z = 3k \cdot 4k = 12k^2$$

Şıklar incelendiğinde k = 3 için $12 \cdot 3^2 = 108$ olabilir.

Cevap: D

4.

1. torbada x tane bilye (herbiri 4 gr)

3. torbada x tane bilye (herbiri 4 gr)

5. torbada x tane bilye (her biri 4 gr)

2. torbada y tane bilye (her biri 5 gr)

4. torbada y tane bilye (her biri 5 gr)

• Her torbaya konulan bilyelerin ağırlıkları eşit ise $4x = 5y$ ve $x = 5k$ ve $y = 4k$ olur.

• Torbalardaki toplam bilye sayısı,

$$3x + 2y = 115 \rightarrow 23k = 115$$

$$\downarrow \quad \downarrow$$

$$5k \quad 4k$$

$$\boxed{k = 5}$$

• Çift numaralardaki toplam bilye sayısı

$$2y = 8k = 40 \text{ tanedir.}$$

Cevap: C

$$\begin{array}{r}
 \bullet \quad a + b = c \\
 + \quad b + c = a + 4 \\
 \hline
 a + 2b + c = c + a + 4 \\
 2b = 4 \Rightarrow b = 2
 \end{array}$$

$$\bullet \quad a + c = 7b \Rightarrow a + c = 14$$

O halde $a + b + c = 2 + 14 = 16$ olur.

Cevap: D

$$\begin{array}{cccccc}
 & & & & n & \\
 & & & & n-2 & \\
 & & & & n-4 & \\
 & & & & n-6 & \\
 m & m+1 & m+2 & m+3 & m+4 & m+5 \\
 & & & & n-10 &
 \end{array}$$

$m + 4 = n - 8$
 $\Rightarrow n - m = 12$

$$\begin{array}{r}
 x + y = m + 5 + n - 10 = 55 \\
 m + n - 5 = 55 \\
 m + n = 60
 \end{array}$$

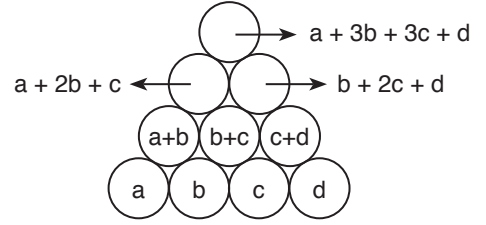
$$\begin{array}{r}
 \Rightarrow \quad n - m = 12 \\
 + \quad m + n = 60 \\
 \hline
 2n = 72 \\
 n = 36 \text{ olur.}
 \end{array}$$

Cevap: C

$$\begin{array}{l}
 \bullet \quad 4e = 2e + 1m \rightarrow 1. \text{ terazi} \\
 \quad \boxed{1m = 2e} \\
 \bullet \quad 2m + a = 7e \quad (m = 2e) \\
 \quad 4e + a = 7e \\
 \quad a = 3e \\
 \quad a = 3 \cdot 110 \text{ gr} \\
 \quad a = 330 \text{ gr olur.}
 \end{array}$$

Cevap: C

8.



$a + b + c + d = 24$ ve $a + d + 3(b + c)$ toplamının büyük olması için $b + c$ büyük seçilmeli

$$\begin{array}{r}
 a + d + b + c = 24 \\
 \quad \quad \quad 9 \quad 7 \\
 \hline
 \quad \quad \quad 8
 \end{array}$$

$$\Rightarrow a + d + 3(b + c) = 8 + 3(9 + 7) = 56 \text{ olur.}$$

Cevap: D

9.

$$\begin{array}{r}
 a \qquad \qquad b \\
 || \qquad \qquad || \\
 \boxed{7} \qquad \qquad \boxed{4} \\
 + \qquad \qquad + \\
 \boxed{8} \qquad \qquad \boxed{3} \\
 + \qquad \qquad + \\
 \boxed{x} + \boxed{5} + \boxed{a} = 24
 \end{array}$$

$$\begin{array}{r}
 \Rightarrow \quad 7 + 8 + x = a \\
 + \quad a + 5 + x = 24 \\
 \hline
 20 + 2x + a = 24 + a \\
 20 + 2x = 24 \\
 2x = 4 \Rightarrow x = 2
 \end{array}$$

$$\begin{array}{r}
 \Rightarrow \quad x + 5 + a = 24 \\
 2 + 5 + a = 24 \Rightarrow a = 17
 \end{array}$$

$$\begin{array}{r}
 \Rightarrow \quad 4 + 3 + a = b \\
 4 + 3 + 17 = b \Rightarrow b = 24 \text{ olur.}
 \end{array}$$

Cevap: B