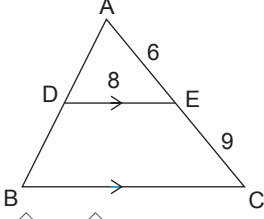


1.



$\widehat{ADE} = \widehat{ABC}$  olduğundan

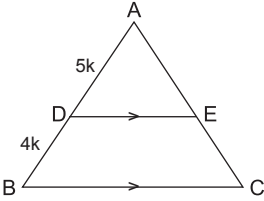
$$\frac{|AD|}{|AB|} = \frac{|AE|}{|AC|} = \frac{|DE|}{|BC|}$$

$$\Rightarrow \frac{6}{15} = \frac{8}{|BC|}$$

$$\Rightarrow |BC| = \frac{15 \cdot 8}{6} = 20 \text{ dir.}$$

CEVAP: C

2.



$[DE] \parallel [BC]$ ,  $4|AD| = 5|DB|$  ise

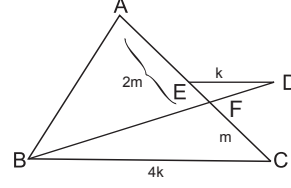
$|AD| = 5k$ ,  $|DB| = 4k$  olur.

$$\triangle ADE \sim \triangle ABC \Rightarrow \frac{|DE|}{|BC|} = \frac{5k}{9k}$$

$$\Rightarrow \frac{|DE|}{|BC|} = \frac{5}{9} \text{ dur.}$$

CEVAP: B

3.



4 .  $|ED| = |BC| \Rightarrow |ED| = k$  ise  $|BC| = 4k$

2 .  $|FC| = |AF| \Rightarrow |FC| = m$  ise  $|AF| = 2m$  olur.

$$\triangle EDF \sim \triangle CBF \Rightarrow \frac{|EF|}{|CF|} = \frac{|ED|}{|BC|}$$

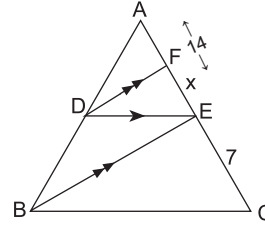
$$\Rightarrow |EF| = \frac{m}{4}$$

$$|AE| = 2m - \frac{m}{4} = \frac{7m}{4} \text{ dür.}$$

Buna göre,  $\frac{|AE|}{|EF|} = \frac{\frac{7m}{4}}{\frac{m}{4}} = 7$  dir.

CEVAP: D

4.



$$\triangle ADE \sim \triangle ABC \Rightarrow \frac{|AD|}{|DB|} = \frac{14}{7} = 2$$

$$\triangle ADF \sim \triangle ABE \Rightarrow \frac{|AD|}{|DB|} = \frac{14-x}{x}$$

$$\Rightarrow 2 = \frac{14-x}{x}$$

$$\Rightarrow 2x = 14 - x$$

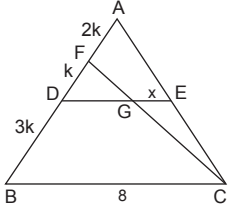
$$3x = 14$$

$$x = \frac{14}{3} \text{ dür.}$$

CEVAP: D



5.



$|AD| = |BD| = 3|FD| \Rightarrow |FD| = k$  ise  $|AD| = |BD| = 3k$  olur.

$$\triangle ADE \sim \triangle ABC \Rightarrow \frac{|AD|}{|AB|} = \frac{|DE|}{|BC|}$$

$$\Rightarrow \frac{3k}{6k} = \frac{|DE|}{8}$$

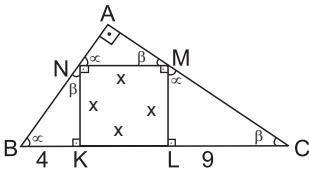
$$\Rightarrow |DE| = 4 \text{ cm olur.}$$

$$\triangle FDG \sim \triangle FBC \Rightarrow \frac{k}{4k} = \frac{|DG|}{8} \Rightarrow |DG| = 2 \text{ cm}$$

olduğundan  $|GE| = 4 - 2 = 2 \text{ cm}$  olur.

**CEVAP: C**

6.



$$\triangle NBK \sim \triangle CML \Rightarrow \frac{x}{9} = \frac{4}{x}$$

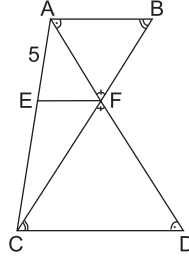
$$\Rightarrow x^2 = 36$$

$$\Rightarrow x = 6 \text{ cm ise}$$

$\text{Ç (KLMN)} = 4 \cdot 6 = 24 \text{ cm dir.}$

**CEVAP: C**

7.



$$\frac{|AB|}{|CD|} = \frac{4}{5}$$

ise  $|AB| = 4k$

$|CD| = 5k$  alınırsa

$$\triangle ABF \sim \triangle DCF \Rightarrow \frac{|AF|}{|FD|} = \frac{4k}{5k} = \frac{4}{5} \text{ olur.}$$

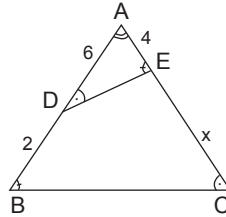
$$\text{Buradan, } \triangle AEF \sim \triangle ACD \Rightarrow \frac{|AE|}{|AC|} = \frac{|AF|}{|AD|}$$

$$\Rightarrow \frac{5}{|AC|} = \frac{4}{9}$$

$$\Rightarrow |AC| = \frac{45}{4} \text{ cm}$$

**CEVAP: D**

8.



$$\triangle ADE \sim \triangle ACB \Rightarrow \frac{|AD|}{|AC|} = \frac{|AE|}{|AB|}$$

$$\Rightarrow \frac{6}{4+x} = \frac{4}{8}$$

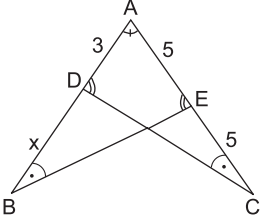
$$\Rightarrow 12 = 4 + x$$

$$\Rightarrow x = 8 \text{ cm dir.}$$

**CEVAP: C**



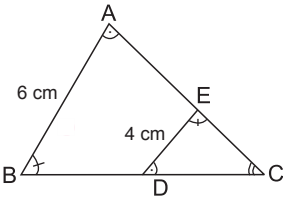
9.



$$\begin{aligned} \triangle ABE \sim \triangle ACD &\Rightarrow \frac{|AB|}{|AC|} = \frac{|AE|}{|AD|} \\ &\Rightarrow \frac{3+x}{10} = \frac{5}{3} \\ &\Rightarrow 9+3x=50 \\ &\Rightarrow 3x=41 \\ &\Rightarrow x = \frac{41}{3} \text{ dir.} \end{aligned}$$

CEVAP: C

10.



$$\triangle EDC \sim \triangle BAC \text{ ise}$$

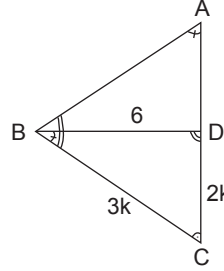
$$\frac{A(\triangle DEC)}{A(\triangle ABC)} = \left(\frac{4}{6}\right)^2$$

$$\frac{4}{A(\triangle ABC)} = \frac{16}{36}$$

$$A(\triangle ABC) = 9 \text{ cm}^2 \text{ dir.}$$

CEVAP: C

11.

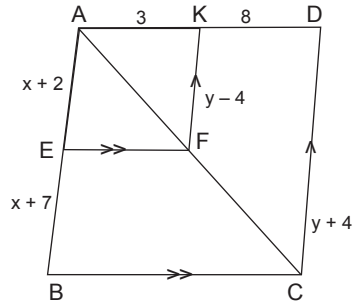


$$\begin{aligned} 2|BC| &= 3|DC| \\ \text{ise} \\ |BC| &= 3k \\ |DC| &= 2k \text{ dir.} \end{aligned}$$

$$\begin{aligned} \triangle BDC \sim \triangle ABC &\Rightarrow \frac{|BD|}{|AB|} = \frac{|DC|}{|BC|} = \frac{|BC|}{|AC|} \\ &\Rightarrow \frac{6}{|AB|} = \frac{2k}{3k} \\ &\Rightarrow |AB| = 9 \text{ cm dir.} \end{aligned}$$

CEVAP: D

12.



$$\begin{aligned} \triangle AFK \sim \triangle ACD &\Rightarrow \frac{3}{11} = \frac{y-4}{y+4} \\ &\Rightarrow 3y+12=11y-44 \\ &\Rightarrow 8y=56 \Rightarrow y=7 \end{aligned}$$

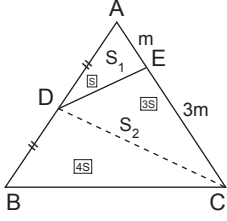
$$\begin{aligned} \triangle AEF \sim \triangle ABC &\Rightarrow \frac{x+2}{x+7} = \frac{3}{8} \\ &\Rightarrow 8x+16=3x+21 \\ &\Rightarrow 5x=5 \\ &\Rightarrow x=1 \end{aligned}$$

olduğundan,  $x + y = 1 + 7 = 8$  dir.

CEVAP: A



13.



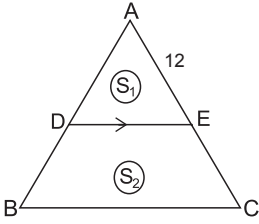
$$\frac{A(\triangle ADE)}{A(\triangle DEC)} = \frac{m}{3m} = \frac{1}{3}$$

$$A(\triangle ADE) = S \text{ ise } A(\triangle DEC) = 3S$$

$$\frac{A(\triangle ADC)}{S_1} = \frac{A(\triangle DBC)}{S_2} = \frac{1}{7} \text{ dir.}$$

**CEVAP: D**

14.



$$\triangle ADE \sim \triangle ABC \Rightarrow \left(\frac{12}{AC}\right)^2 = \frac{A(\triangle ADE)}{A(\triangle ABC)}$$

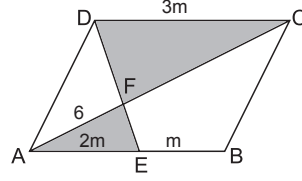
$$\Rightarrow \sqrt{\left(\frac{12}{AC}\right)^2} = \sqrt{\frac{9}{16}}$$

$$\Rightarrow \frac{12}{AC} = \frac{3}{4}$$

$$\Rightarrow |AC| = 16 \text{ cm dir.}$$

**CEVAP: B**

15.



$$|AE| = 2|EB| \Rightarrow |EB| = m, |AE| = 2m$$

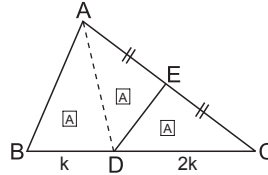
ABCD paralel kenar olduğundan  $|AB| = |DC| = 3m$  olur.

$$\triangle DFC \sim \triangle EFA \Rightarrow \frac{3m}{2m} = \frac{|FC|}{6}$$

$$\Rightarrow |FC| = 9 \text{ cm dir.}$$

**CEVAP: B**

16.



$$|DC| = 2|BD| \Rightarrow |BD| = k, |DC| = 2k$$

$$A(\triangle ABC) = 3A = 42$$

$$\Rightarrow A = 14 \text{ cm}^2 \text{ dir.}$$

**CEVAP: B**

