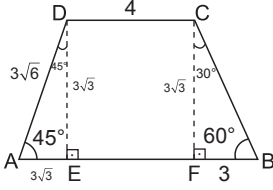


1.



DEA dik üçgeninde ( $45^\circ - 45^\circ - 90^\circ$  özel-  
liğinden

$$|DE| \cdot \sqrt{2} = 3\sqrt{6} \Rightarrow |DE| = 3\sqrt{3}$$

$$|DE| = |CF| = 3\sqrt{3}$$

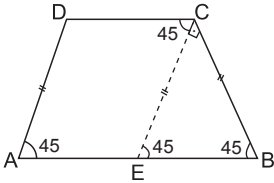
CFB dik üçgeninde ( $30^\circ - 60^\circ - 90^\circ$  özel-  
liğinden

$$|FB| \cdot \sqrt{3} = 3\sqrt{3} \Rightarrow |FB| = 3$$

$$\text{ise } |AB| = 7 + 3\sqrt{3} \text{ dir.}$$

CEVAP: E

2.



ABCD ikizkenar yamuk olduğundan

$m(\widehat{DAB}) = m(\widehat{CBA}) = 45^\circ$  [DA] paralel ola-  
cak şekilde [CE] çizelim  $|DA| = |CE|$  olur.

ACED paralel kenarında  $m(\widehat{DCE}) = 45^\circ$   
dir.

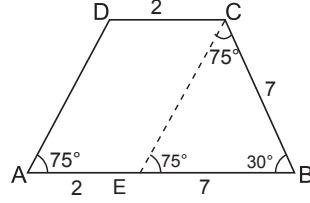
CEB üçgeninde  $m(\widehat{ECB}) = 90^\circ$  olur.

Buna göre,

$$m(\widehat{BCD}) = x = 90 + 45 \\ = 135^\circ \text{ dir.}$$

CEVAP: C

3.



[DA] // [CE] olacak şekilde [CE] çizelim.

$m(\widehat{CEB}) = m(\widehat{DAB}) = 75^\circ$  olur.

BCE üçgeninde

$$75 + 30 + m(\widehat{ECB}) = 180^\circ \Rightarrow m(\widehat{ECB}) = \\ 75^\circ \text{ dir.}$$

Buna göre,

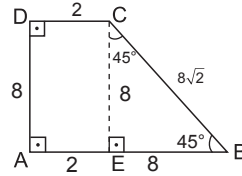
$|BC| = |EB| = 7$  cm dir. AECD paralel kenarından

$|DC| = |EA| = 2$  cm olduğundan

$$|AB| = x = 9 \text{ cm dir.}$$

CEVAP: D

4.



[CE]  $\perp$  [AB] olacak şekilde [CE] çizelim.

CEB dik üçgeninde ( $45^\circ - 45^\circ - 90^\circ$  özel-  
liğinden

$$|DE| \cdot \sqrt{2} = 8\sqrt{2}$$

ise  $|DE| = |EB| = 8$  cm olur.

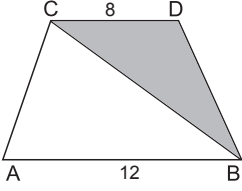
Buna göre,

$$A(\text{ABCD}) = \frac{(10 + 2) \cdot 8}{2} = \frac{12 \cdot 8}{2} \\ = 48 \text{ cm}^2 \text{ dir.}$$

CEVAP: D



5.

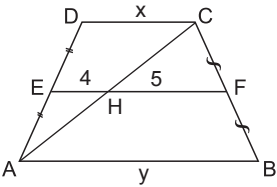


$$\frac{A(\triangle DCB)}{A(\triangle ADB)} = \frac{|DC|}{|AB|} \Rightarrow \frac{36}{A(\triangle ADB)} = \frac{8}{12}$$

$$A(\triangle ADB) = 54 \text{ cm}^2 \text{ dir.}$$

CEVAP: B

6.



[EF] orta taban ise  $|ED| = |EA|$

$$|CF| = |FB|$$

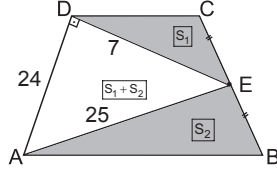
$$\begin{aligned} \text{ADC üçgeninde, } |DC| &= 2|EH| \\ &= 2 \cdot 4 = 8 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{ABC üçgeninde, } |AB| &= 2 \cdot |HF| \\ &= 2 \cdot 5 = 10 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{Buna göre, } y - x &= 10 - 8 \\ &= 2 \text{ cm dir.} \end{aligned}$$

CEVAP: B

7.



ADE dik üçgeninde

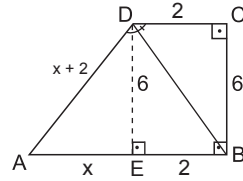
$$7^2 + |DA|^2 = 25^2 \Rightarrow 49 + |DA|^2 = 625$$

$$|DA|^2 = 576 \Rightarrow |DA| = 24 \text{ cm dir.}$$

$$\begin{aligned} \text{Taralı alan} &= A(\triangle DAE) = \frac{7 \cdot 24}{2} \\ &= 7 \cdot 12 \\ &= 84 \text{ cm}^2 \text{ dir.} \end{aligned}$$

CEVAP: E

8.



[DC] // [AB] olduğundan

$$m(\angle CDB) = m(\angle DBA) \Rightarrow |DA| = |AB|$$

$$|AE| = x \text{ ise } |AD| = x + 2 \text{ olur.}$$

DAE dik üçgende pisagor bağıntısından

$$(x + 2)^2 = x^2 + 6^2$$

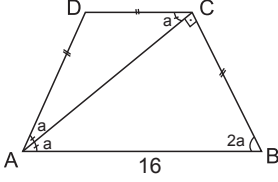
$$x^2 + 4x + 4 = x^2 + 36 \Rightarrow 4x = 32 \Rightarrow x = 8$$

$$\begin{aligned} \text{Buna göre, } A(\text{ABCD}) &= \frac{(10 + 2) \cdot 6}{2} \\ &= 36 \text{ cm}^2 \text{ dir.} \end{aligned}$$

CEVAP: B



9.



ABCD ikizkenar yamuk ise

$m(\widehat{DAB}) = m(\widehat{CBA}) = 2a$   $[DC] \parallel [AB]$  olduğundan

$m(\widehat{DCA}) = m(\widehat{CAB}) = a$  dir.

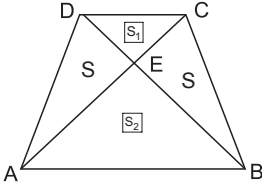
ABC dik üçgeninde  $a + 2a + 90 = 180$

$$3a = 90 \Rightarrow a = 30^\circ, |BC| = \frac{|AB|}{2} = \frac{16}{2} = 8 \text{ cm}$$

olduğuna göre  $|DC| = x = 8 \text{ cm}$  dir.

CEVAP: D

10.



ABCD yamuğunda  $A(\triangle DEA) = A(\triangle CEB)$

$$S^2 = S_1 \cdot S_2 \Rightarrow S_2 = 9 \cdot 16$$

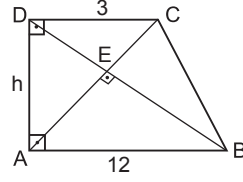
$$S_2 = 144$$

$$S = 12 \text{ cm}^2 \text{ olur.}$$

$$A(ABCD) = 12 + 12 + 9 + 16 = 49 \text{ cm}^2 \text{ dir.}$$

CEVAP: B

11.



Dik yamukta köşegenler dik kesişirse

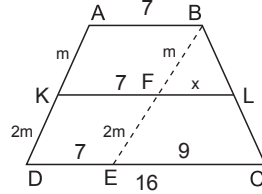
$$h^2 = 3 \cdot 12$$

$$h = 6 \text{ dir.}$$

$$A(ABCD) = \frac{(12+3) \cdot 6}{2} = 15 \cdot 3 = 45 \text{ cm}^2$$

CEVAP: D

12.



BEC üçgeninde  $[FL] \parallel [EC]$  olduğundan

$\triangle BFL \sim \triangle BEC$  den

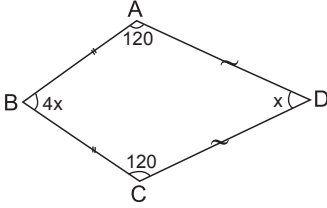
$$\frac{m}{3m} = \frac{x}{9} \Rightarrow x = 3 \text{ dir.}$$

$$|KL| = 3 + 7 = 10 \text{ cm dir.}$$

CEVAP: C



13.



ABCD deltoidinde  $m(\widehat{BAD}) = m(\widehat{BCD}) = 120^\circ$  dir.

$m(\widehat{ABC}) = 4 \cdot m(\widehat{ADC})$  ise  $m(\widehat{ADC}) = x$ ,  $m(\widehat{ABC}) = 4x$  dir.

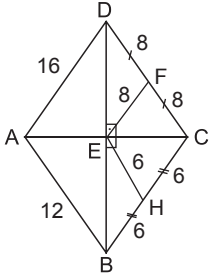
$$x + 4x + 240 = 360$$

$$5x + 240 = 360$$

$$5x = 120 \Rightarrow x = 24^\circ \text{ dir.}$$

**CEVAP: C**

14.



ABCD deltoid ise  $[AC] \perp [BD]$ , DEC dik üçgeninde

$$|FC| = |FD| = |EF| = 8 \text{ cm}$$

BEC dik üçgeninde  $|EB| = |HC| = |EH| = 6 \text{ cm}$

ABCD deltoid olduğundan;

$|DC| = |AD| = 16$  ve  $|AB| = |BC| = 12 \text{ cm}$  olduğundan

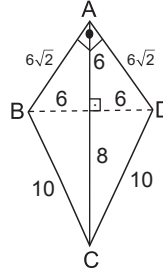
$$\text{Çevre (ABCD)} = 2 \cdot 16 + 2 \cdot 12$$

$$= 32 + 24$$

$$= 56 \text{ cm dir.}$$

**CEVAP: C**

15.



[BD] çizildiğinde,

$[BD] \perp [AC]$  olur.

ABD dik üçgeninde,

$$|BD| = |AD| \cdot \sqrt{2}$$

$$|BD| = 6\sqrt{2} \cdot \sqrt{2}$$

$$= 12 \text{ cm olur.}$$

ECD dik üçgeninde,

$$\text{pisagor bağıntısından } 6^2 + |EC|^2 = 10^2$$

$$36 + |EC|^2 = 100$$

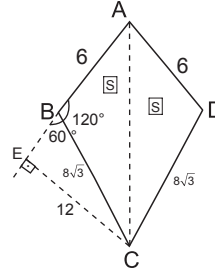
$$|EC|^2 = 64$$

$$|EC| = 8 \text{ cm}$$

$$|AC| = 8 + 6 = 14 \text{ cm dir.}$$

**CEVAP: C**

16.



ABCD deltoid olduğundan  $|AD| = |AB| = 6$  ABC üçgenine dışardan bir dikme indirilirse,

$m(\widehat{EBC}) = 60^\circ$  olur.

CEB dik üçgeninde  $(30^\circ - 60^\circ - 90^\circ)$  özelliğinden

$$|CE| = |BC| \cdot \frac{\sqrt{3}}{2}$$

$$|EC| = \frac{8\sqrt{3} \cdot \sqrt{3}}{2} = 12 \text{ cm}$$

$$A(\triangle ABC) = \frac{6 \cdot 12}{2} = 36 \text{ cm}$$

olduğuna göre,

$$A(ABCD) = 36 \cdot 2 = 72 \text{ cm}^2 \text{ dir.}$$

**CEVAP: E**

