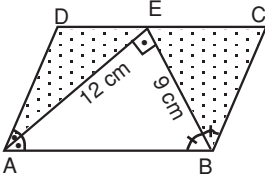


1.

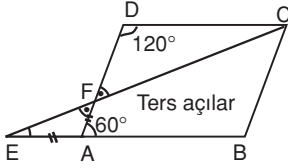


$$A(\widehat{ABE}) = A(\widehat{ADE}) + A(\widehat{EBC})$$

$$= \frac{12 \cdot 9}{2} = 54 \text{ cm}^2 \quad (\text{Dik üçgenin alanı})$$

**Cevap: A**

2.



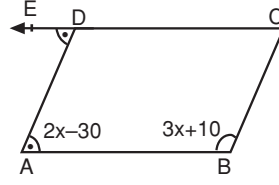
$$\begin{aligned} s(\widehat{DAB}) &= 180^\circ - 120^\circ \\ &= 60^\circ \end{aligned}$$

$$\begin{aligned} s(\widehat{FAE}) &= 180^\circ - 60^\circ \\ &= 120^\circ \end{aligned}$$

$$\begin{aligned} s(\widehat{DFC}) &= \frac{180 - 120}{2} \\ &= \frac{60}{2} \\ &= 30^\circ \end{aligned}$$

**Cevap: D**

3.



$$s(\widehat{EDA}) = 2x - 30^\circ$$

(İç ters açılar)

$$2x - 30 + 3x + 10 = 180^\circ$$

$$5x - 20 = 180$$

$$x = 200 : 5$$

$$x = 40^\circ$$

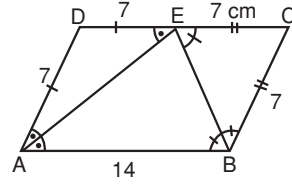
$$s(\widehat{EDA}) = 2x - 30^\circ$$

$$= 2 \cdot 40 - 30$$

$$= 50^\circ$$

**Cevap: B**

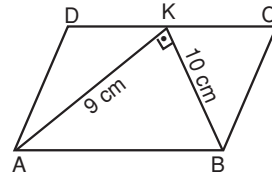
4.



$$\begin{aligned} \text{Ç}(\text{ABCD}) &= 14 + 14 + 7 + 7 \\ &= 42 \end{aligned}$$

**Cevap: C**

5.



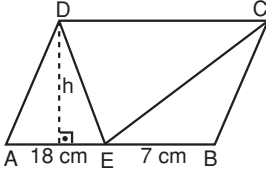
$$A(\text{ABCD}) = 2 \cdot A(\widehat{ABK})$$

$$= 2 \cdot \frac{9 \cdot 10}{2}$$

$$= 90 \text{ cm}^2$$

**Cevap: A**

6.



$$A(ABCD) = (AB) \cdot h$$

$$|AB| = 18 + 7 = 25 \text{ cm}$$

$$2 \cdot 75 \text{ cm}^2 = 25 \cdot h$$

$$\Rightarrow [A(ABCD) = 2 \cdot A(\widehat{DEC})]$$

$$h = 150 : 25$$

$$h = 6 \text{ cm}$$

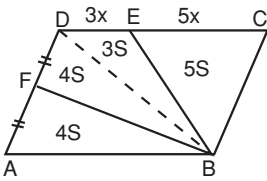
$$A(\widehat{ADE}) = \frac{18 \cdot 6}{2}$$

$$= \frac{108}{2}$$

$$= 54 \text{ cm}^2$$

Cevap: B

7.



[BD] çizilir.

$$A(\widehat{BDE}) = 3S, A(\widehat{BEC}) = 5S$$

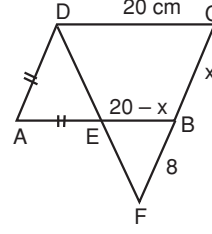
$$A(\widehat{DBC}) = A(\widehat{ABD}) = 8S$$

$$A(\widehat{FBED}) = 7S = 70 \text{ cm}^2 \Rightarrow S = 10 \text{ cm}^2$$

$$A(ABCD) = 16S = 16 \cdot 10 = 160 \text{ cm}^2$$

Cevap: D

8.



$$|AE| = |AD| = x \text{ olsun.}$$

$$|EB| = 20 - x$$

$$\frac{20 - x}{20} = \frac{8}{8 + x} \text{ (Temel benzerlik teoremi)}$$

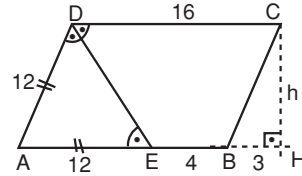
$$\Rightarrow 160 = 160 - 8x + 20x - x^2$$

$$\Rightarrow x^2 - 12x = 0 \Rightarrow x = 12 \text{ bulunur.}$$

$$\begin{aligned} \text{Ç}(ABCD) &= 20 + 20 + 12 + 12 \\ &= 64 \end{aligned}$$

Cevap: A

9.



$$s(\widehat{E}) = s(\widehat{EDC}) \text{ (İç ters açılar)}$$

$$|AE| = |AD| = 16 - 4 = 12$$

$$[CH] \perp [AB] \text{ ([CH] çizilir.)}$$

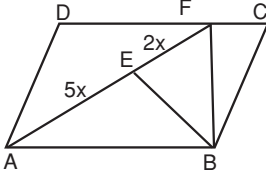
[CH], hem  $(\widehat{AED})$ 'ne, hem de paralel kenara ait yüksekliktir.

$$\frac{A(ABCD)}{A(ADE)} = \frac{12 \cdot h}{2} = 16 \cdot h$$

$$= \frac{8}{12} = \frac{8}{3}$$

Cevap: D

10.



$$\frac{A(\widehat{AEB})}{A(\widehat{BEF})} = \frac{5x}{2x} = \frac{5}{2}$$

$A(\widehat{AEB}) = 5S$ ,  $A(\widehat{BEF}) = 2S$  olur.

$$A(\widehat{AEB}) = 5S = 25$$

$\Rightarrow S = 5 \text{ cm}^2$  bulunur.

$$\begin{aligned} A(\widehat{ABF}) &= 5S + 2S = 7S \\ &= 7 \cdot 5 = 35 \text{ cm}^2 \end{aligned}$$

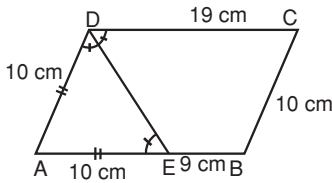
$$A(\widehat{ABF}) = \frac{A(ABCD)}{2}$$

$$35 = \frac{A(ABCD)}{2}$$

$$\Rightarrow A(ABCD) = 70 \text{ cm}^2$$

Cevap: C

11.



$$|AB| = |DC| = 19 \text{ cm}$$

(Karşılıklı kenarlar eşittir.)

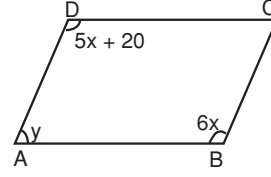
$$|AE| = 19 - 9 = 10 \text{ cm}$$

$s(\widehat{AED}) = s(\widehat{EDC})$  (İç ters açılar)

$$\begin{aligned} \text{Ç}(ABCD) &= 19 + 19 + 10 + 10 \\ &= 58 \end{aligned}$$

Cevap: B

12.



$s(\widehat{D}) = s(\widehat{B})$  (Karşılıklı açılar eşittir.)

$$\Rightarrow 6x = 5x + 20^\circ$$

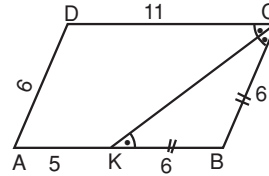
$$\Rightarrow \boxed{x = 20^\circ} \text{ dir.}$$

$s(\widehat{A}) \times s(\widehat{D}) = 180^\circ$  dir.

$$y + 5 \cdot 20 + 20 = 180^\circ \quad y = 60^\circ$$

Cevap: C

13.



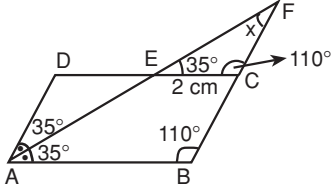
$s(\widehat{DCK}) = s(\widehat{CKB})$  (İç ters açılar)

$\Rightarrow |KB| = |BC| = 6 \text{ cm}$  bulunur.

$$|ABI| = |DCI| = 5 + 6 = 11$$

Cevap: C

14.



$$s(\widehat{A}) + s(\widehat{B}) = 180^\circ$$

$$s(\widehat{A}) + 110^\circ = 180^\circ$$

$$s(\widehat{A}) = 70^\circ \text{ bulunur.}$$

$$s(\widehat{FAB}) = \frac{s(\widehat{A})}{2} = \frac{70}{2} = 35^\circ$$

$$s(\widehat{FEC}) = 35^\circ$$

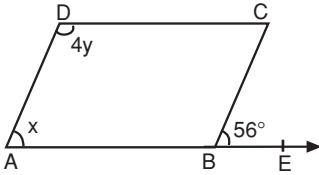
$$s(\widehat{ECF}) = 110^\circ = s(\widehat{B}) \text{ (Yöndeş açılar)}$$

$$\widehat{EFC}'\text{ninde; } 110^\circ + 35^\circ + x = 180^\circ$$

$$\Rightarrow x = 35^\circ \text{ bulunur.}$$

Cevap: A

15.



$$s(\widehat{A}) = s(\widehat{CBE}) \text{ (Yöndeş açılar)}$$

$$x = 56^\circ \text{ bulunur.}$$

$$s(\widehat{A}) + s(\widehat{D}) = 180^\circ \text{ dir.}$$

$$x + 4y = 180^\circ$$

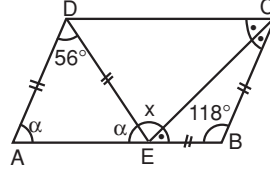
$$56 + 4y = 180^\circ$$

$$\Rightarrow y = 31^\circ \text{ bulunur.}$$

$$\Rightarrow x + y = 56 + 31 = 87^\circ$$

Cevap: B

16.



$$IBCI = IADI' \text{ dir.}$$

$$\widehat{ADE}'\text{ninde;}$$

$$s(\widehat{D}) + s(\widehat{DAE}) + s(\widehat{AED}) = 180^\circ$$

$$56 + \alpha + \alpha = 62^\circ$$

$$\Rightarrow \alpha = 62^\circ$$

$$s(\widehat{DAE}) + s(\widehat{EBC}) = 180^\circ \text{ (Yöndeş açılar)}$$

$$62^\circ + s(\widehat{EBC}) = 180^\circ \Rightarrow s(\widehat{EBC}) = 118^\circ$$

$$\widehat{EBC}'\text{ninde;}$$

$$\theta + \theta = 118^\circ = 180^\circ$$

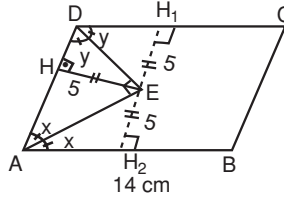
$$\Rightarrow \theta = 31^\circ \text{ bulunur.}$$

$$62 + x + 31 = 180^\circ$$

$$x = 87^\circ \text{ dir.}$$

Cevap: A

17.



$$s(\widehat{A}) + s(\widehat{D}) = 180^\circ$$

$$2x + 2y = 180^\circ$$

$$\Rightarrow s(\widehat{DEA}) = 90^\circ \text{ elde edilir.}$$

$$[EH_1] = [EH_2] \text{ çizilir.}$$

(Açıortay doğrusu üzerinden açıortayın kollarına inilen dikmeler eşit uzunluktadır.)

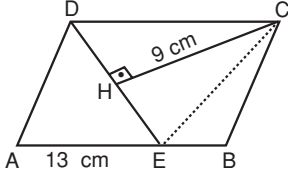
$$[H_1H_2] = 10$$

$$(ABCD) = IABI \cdot |H_1H_2|$$

$$= 14 \cdot 10 = 140$$

Cevap: C

18.



[CE] çizilir.

$$A(\widehat{DEC}) = \frac{|DE| \cdot |CH|}{2} = \frac{13 \cdot 9}{2} \text{ cm}^2 \text{ bulunur.}$$

$$A(BCDE) = 2 \cdot A(\widehat{DEC})$$

$$= 2 \cdot \frac{13 \cdot 9}{2} = 117 \text{ cm}^2$$

**Cevap: C**