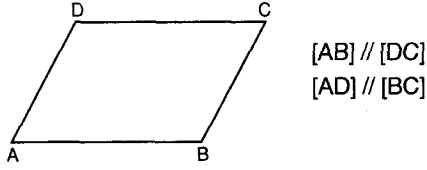
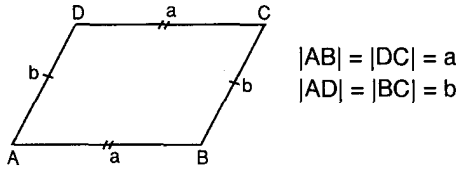




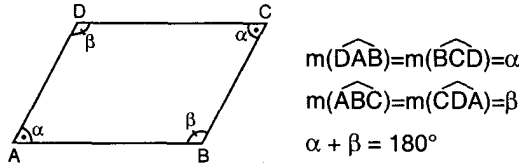
■ Karşılıklı kenarları birbirine paralel olan dörtgene paralelkenar denir.



■ Karşılıklı kenarlarının uzunlukları eşittir.

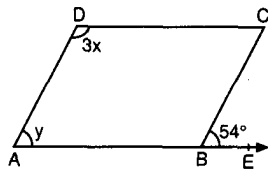


■ Karşılıklı açılarının ölçüleri eşittir ve ardışık açılarının ölçüleri toplamı 180° dir.



Örnek-1

ABCD bir paralelkenar
 $m(\widehat{CBE}) = 54^\circ$
 $m(\widehat{CDA}) = 3x$
 $m(\widehat{DAE}) = y$

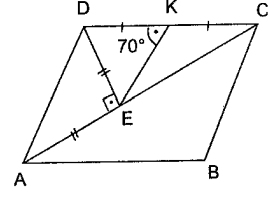


Yukarıdaki verilere göre, $x + y$ toplamı kaç derecedir?

- A) 80 B) 84 C) 90 D) 96 E) 106

Örnek-2

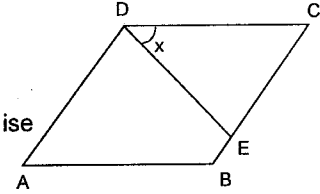
Şekilde;
 ABCD paralelkenar
 $[DE] \perp [AC]$
 $|AE| = |DE|$
 $|DK| = |KC|$
 $m(\widehat{DKE}) = 70^\circ$ ise
 $m(\widehat{ABC})$ kaç derecedir?



- A) 90 B) 100 C) 110 D) 115 E) 120

Örnek-3

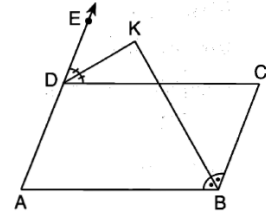
Şekildeki;
 ABCD paralelkenardır.
 $|DE| = |AB|$
 $m(\widehat{ADE}) = 4m(\widehat{EDC})$ ise
 $m(\widehat{EDC}) = x$
 kaç derecedir?



- A) 40 B) 30 C) 25 D) 20 E) 10

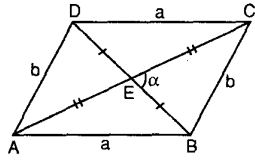
Örnek-4

ABCD paralelkenar
 $m(\widehat{EDK}) = m(\widehat{KDC})$
 $m(\widehat{ABK}) = m(\widehat{KBC})$
 olduğuna göre
 $m(\widehat{DKB})$ kaç derecedir?



- A) 60 B) 72 C) 75 D) 90 E) 120

- Paralelkenarda köşegenler birbirini ortalar, açıortay değildir.



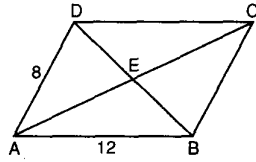
$$|BD| = e, |AC| = f$$

$$2(a^2 + b^2) = e^2 + f^2$$

$$\text{Alan}(ABCD) = \frac{e \cdot f}{2} \sin \alpha$$

Örnek-5

ABCD bir paralelkenar
[AC] ve [BD] köşegen
|AB| = 12 cm
|AD| = 8 cm
|BD| = 10 cm

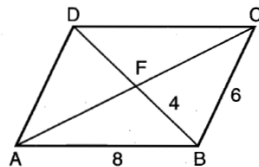


Yukarıdaki verilere göre, |AC| kaç cm dir?

- A) $2\sqrt{3}$ B) $3\sqrt{23}$ C) $2\sqrt{71}$
D) $2\sqrt{79}$ E) $3\sqrt{85}$

Örnek-6

ABCD paralelkenar
[DB] ∩ [AC] = {F}
|AB| = 8 cm
|BC| = 6 cm
|FB| = 4 cm ise
|FC| kaç cm dir?



- A) $\sqrt{34}$ B) $\sqrt{35}$ C) 6 D) $\sqrt{39}$ E) 7

Örnek-7

Şekilde;

ABCD paralelkenar

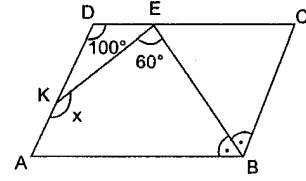
$$m(\hat{D}) = 100^\circ$$

$$m(\hat{K\hat{E}B}) = 60^\circ$$

[BE] açıortay ise

$m(\hat{A\hat{K}E}) = x$ kaç derecedir?

- A) 110 B) 120 C) 130 D) 150 E) 170



Örnek-8

ABCD bir

paralelkenar

[EC] açıortay

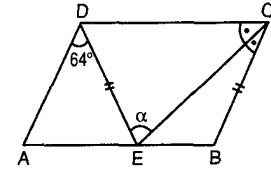
$$|DE| = |BC|$$

$$m(\hat{EDA}) = 64^\circ$$

$$m(\hat{DEC}) = \alpha$$

Yukarıdaki verilere göre, $m(\hat{DEC}) = \alpha$ kaç derecedir?

- A) 87 B) 93 C) 96 D) 97 E) 103



Örnek-9

ABCD paralelkenar

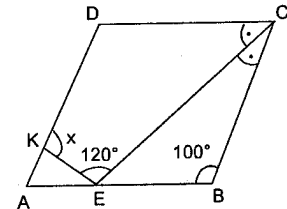
[CE] açıortay

$$m(\hat{K\hat{E}C}) = 120^\circ$$

$$m(\hat{E\hat{B}C}) = 100^\circ \text{ ise}$$

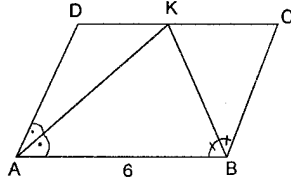
$m(\hat{D\hat{K}E}) = x$ kaç derecedir?

- A) 70 B) 80 C) 90 D) 100 E) 120



Örnek-10

Şekilde;
ABCD paralelkenar
[AK] ile [BK]
açıortaydır.
|AB| = 6 cm ise

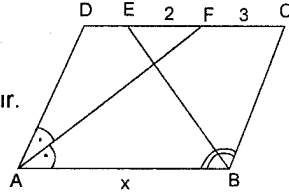


Çevre(ABCD) kaç cm dir?

- A) 12 B) 14 C) 15 D) 18 E) 24

Örnek-11

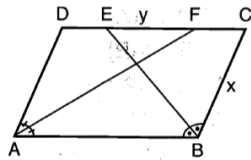
Şekilde;
ABCD paralelkenar
[AF] ile [BE] açıortaydır.
|EF| = 2 cm
|FC| = 3 cm ise
|AB| = x kaç cm dir?



- A) 6 B) 7 C) 8 D) 9 E) 10

Örnek-12

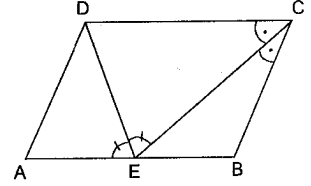
ABCD
paralelkenarında
[BE] ve [AF]
açıortaylardır.
|BC| = x
|EF| = y ise |AB| aşağıdakilerden hangisidir?



- A) 3y B) 2y - x C) 2x - y
D) x + y E) 2x

Örnek-13

Şekilde; ABCD
paralelkenar
[CE] açıortay
[ED] açıortay
[DC] = 12 cm ise

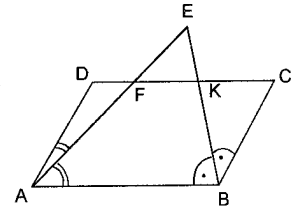


Çevre(DEC) – Çevre(ADE) farkı kaç cm dir?

- A) 6 B) 10 C) 11 D) 12 E) 16

Örnek-14

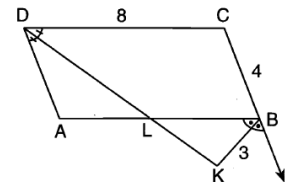
Şekilde; ABCD
paralelkenar
[AE] ile [BE] açıortay
|AE| = 12 cm
|EB| = 9 cm
|BC| = 6 cm ise
|FK| kaç cm dir?



- A) 1 B) 2 C) 3 D) 4 E) 5

Örnek-15

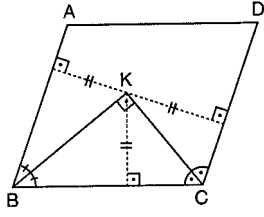
ABCD
paralelkenarında
[DK] ve [BK]
açıortaylardır.
|DC| = 8 cm
|BC| = 4 cm
|BK| = 3 cm ise |KL| kaç cm dir?



- A) 3 B) 4 C) 5 D) $\sqrt{5}$ E) $\sqrt{7}$

Mola😊

■ Komşu iki köşenin açıortayları birbirine diktir.



$$m(\hat{BKC}) = 90^\circ \text{ dir.}$$

$$|KI| = |MK| = |KN| \text{ dir.}$$

Örnek-18

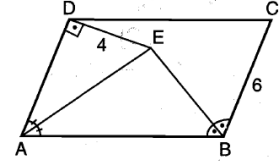
ABCD
paralelkenarında
E açıortayların
kesim noktasıdır.

$$[ED] \perp [AD]$$

$$|ED| = 4 \text{ cm}$$

$|BC| = 6 \text{ cm}$ ise D noktasının $[BC]$ ye olan
uzaklığı kaç cm dir?

- A) 42 B) 44 C) 46 D) 48 E) 50



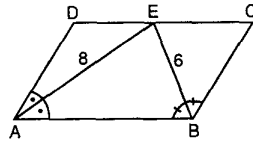
Örnek-16

ABCD bir paralelkenar

$[AE]$ ve $[BE]$ açıortay

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

$$|BE| = 6 \text{ cm}$$



Yukarıdaki verilere göre, ABCD paralelkenarının
çevresi kaç cm dir?

- A) 28 B) 30 C) 34 D) 48 E) 56

Örnek-19

Şekildeki; ABCD

paralelkenar

$[DE]$ ile $[CE]$ açıortay

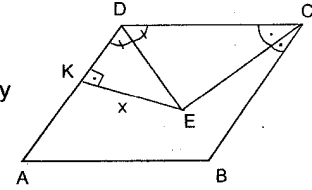
$$[EK] \perp [AD]$$

$$|AB| = 10 \text{ cm}$$

$$|DE| = 6 \text{ cm}$$

$|KE| = x$ kaç cm dir?

- A) 5 B) $\frac{24}{5}$ C) 4 D) $\frac{7}{2}$ E) 3



Örnek-17

ABCD paralelkenar

$[DE]$ ve $[CE]$

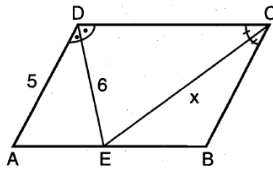
açıortaylar

$$|AD| = 5 \text{ cm}$$

$$|DE| = 6 \text{ cm}$$

ise $|EC| = x$ kaç cm dir?

- A) 6 B) $4\sqrt{3}$ C) $6\sqrt{3}$ D) 8 E) 10



Örnek-20

ABCD paralelkenarında

$[AE]$ ve $[BE]$

açıortaylar

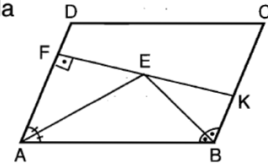
$$[FK] \perp [AD]$$

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

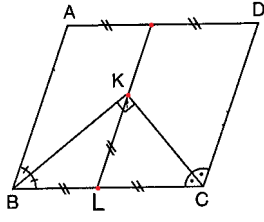
$$A(EAB) = 24 \text{ cm}^2$$

ise $|FK|$ kaç cm dir?

- A) 6 B) 8 C) 9 D) 10 E) 12



■ Komşu iki köşenin açıortayları birbirine diktir.

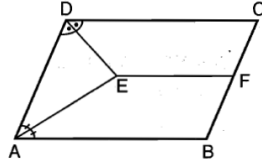


$$m(\hat{BKC}) = 90^\circ \text{ dir.}$$

$$|KL| = |BL| = |LC| \text{ dir.}$$

Örnek-21

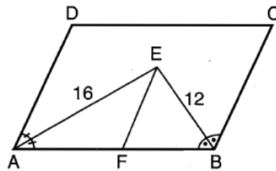
ABCD paralelkenar
[DE] ve [AE] açıortay
[EF] // [AB]
|DE| = 12 cm
|AE| = 16 cm
|AB| = 25 cm ise
|EF| kaç cm dir?



- A) 10 B) 15 C) 20 D) 25 E) 30

Örnek-22

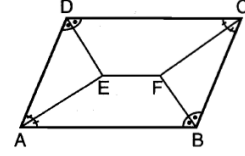
ABCD paralelkenar
[EF] // [AD]
[AE] ile [BE]
açıortaylardır.
|AE| = 16 cm
|BE| = 12 cm ise
|EF| kaç cm dir?



- A) 6 B) 7 C) 8 D) 9 E) 10

Örnek-23

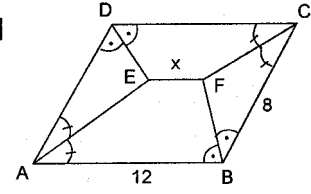
ABCD paralelkenarında
açıortayların kesim
noktası E ve F dir.
|AB| = 8 cm
|BC| = 4 cm ise
|EF| kaç cm dir?



- A) 2 B) 3 C) 4 D) 5 E) $3\sqrt{2}$

Örnek-24

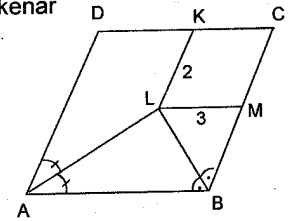
Şekilde; ABCD
paralelkenar
[DE], [CF], [BF], [AE]
bulundukları açılar
açıortaylarıdır.
|AB| = 12 cm
|BC| = 8 cm ise
|EF| = x kaç cm dir?



- A) 2 B) 3 C) 4 D) 5 E) 6

Örnek-25

Şekilde; ABCD paralelkenar
[AL] ile [BL] açıortay
[KL] // [BC]
[LM] // [AB]
|KL| = 2 cm
|LM| = 3 cm ise

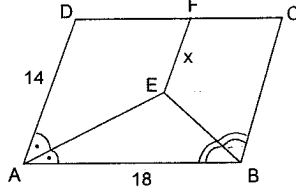


Çevre(ABCD) kaç cm^2 dir

- A) 16 B) 18 C) 20 D) 22 E) 24

Örnek-26

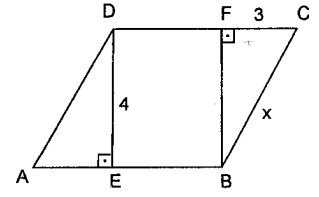
Şekilde; ABCD
paralelkenar
[AE] ile [BE] açıortay
[EF] // [BC]
|AB| = 18 cm
|AD| = 14 cm ise
|EF| = x kaç cm dir?



- A) 4 B) 5 C) 6 D) 7 E) 8

Örnek-29

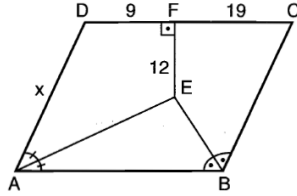
Şekildeki; ABCD
paralelkenar
[DE] ⊥ [AB]
[BF] ⊥ [DC]
|DE| = 4 cm
|FC| = 3 cm ise
|BC| = x kaç cm dir?



- A) 5 B) 6 C) 7 D) 8 E) 10

Örnek-27

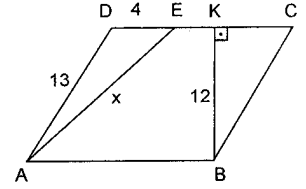
ABCD paralelkenar
[AE] ve [BE]
açıortaylar
[EF] ⊥ [DC]
|DF| = 9 cm
|FC| = 19 cm
|EF| = 12 cm ise
|AD| = x kaç cm dir?



- A) 26 B) 27 C) 28 D) 29 E) 30

Örnek-30

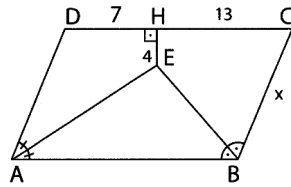
Şekilde; ABCD
paralelkenar
[BK] ⊥ [DC]
|AD| = 13 cm
|DE| = 4 cm
|BK| = 12 cm ise
|AE| = x kaç cm dir?



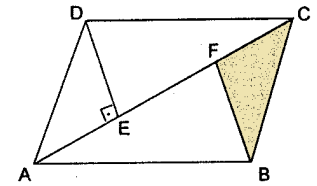
- A) 14 B) 15 C) 16 D) 18 E) 20

Örnek-28

ABCD paralelkenar
[AE], [BE] açıortaylar
[EH] ⊥ [CD]
|DH| = 7 cm, |EH| = 4 cm
|CH| = 13 cm ise,
|BC| = x kaç cm dir?

**Örnek-31**

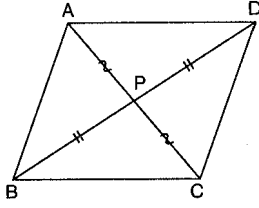
Şekilde; ABCD
paralelkenar
[DE] ⊥ [AC]
|DE| = 4 cm
|FC| = 3 cm ise
Alan(BFC) kaç cm² dir?



- A) 6 B) 8 C) 9 D) 10 E) 12

Mola😊

- Köşegenler birbirini iki eşit parçaya ayırırlar. (Birbirini ortalar)

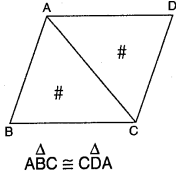


$$|AP| = |PC|$$

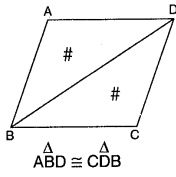
$$|BP| = |PD|$$

- Köşegenlerin kesim noktası paralelkenarın ağırlık merkezidir.

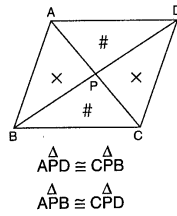
- Bir köşegen paralelkenarı iki eş üçgene ayırır. İki köşegen karşılıklı eş üçgenler oluşturur.



$$\triangle ABC \cong \triangle CDA$$



$$\triangle ABD \cong \triangle CDB$$



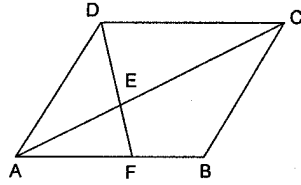
$$\triangle APD \cong \triangle CPB$$

$$\triangle APB \cong \triangle CPD$$

Örnek-32

Şekilde; ABCD
paralelkenar
 $|AF| = 2|FB|$
 $|EF| = 2$ cm ise
 $|DE|$ kaç cm dir?

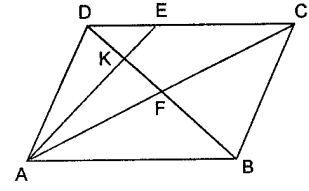
- A) 2 B) 3 C) 4 D) 5 E) 6



Örnek-33

Şekilde; ABCD
paralelkenar
 $|EC| = 4|DE|$
 $|DB| = 48$ cm ise
 $|FK|$ kaç cm dir?

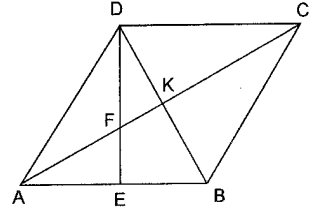
- A) 12 B) 14 C) 16 D) 18 E) 20



Örnek-34

Şekilde; ABCD
paralelkenar
 $|DC| = 4|AE|$
 $|AF| = 2$ cm ise
 $|KC|$ kaç cm dir?

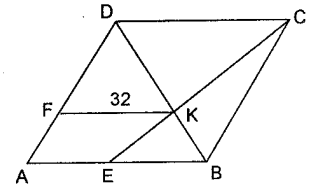
- A) 3 B) 4 C) 5 D) 6 E) 8



Örnek-35

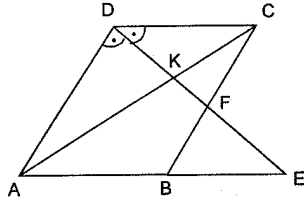
Şekilde; ABCD
paralelkenar
 $|FK| \parallel |AB|$
 $\frac{|AE|}{|EB|} = \frac{1}{3}$
 $|FK| = 32$ cm ise
 $|AE|$ kaç cm dir?

- A) 6 B) 8 C) 10 D) 12 E) 14

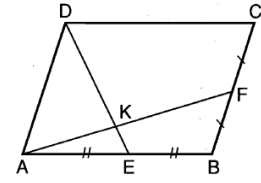


Örnek-36

Şekilde; ABCD
paralelkenar
[DE], açıortay
|DC| = 5 cm
|DA| = 15 cm
|FE| = 12 cm ise
|DK| kaç cm dir?
A) 6 B) 5,5 C) 5 D) 4,5 E) 3

**Örnek-39**

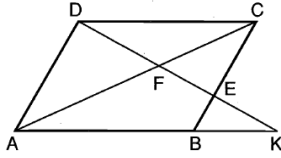
ABCD
paralelkenar
|AE| = |EB|
|BF| = |FC|
|DE| = 30 cm ise
|DK| kaç cm dir?



- A) 18 B) 20 C) 22 D) 24 E) 25

Örnek-37

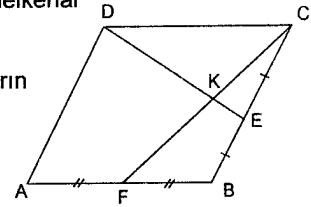
ABCD
paralelkenar
 $|BE| = \frac{1}{4} \cdot |BC|$
|FE| = 6 cm ise
|EK| kaç cm dir?



- A) 1 B) 2 C) $\frac{13}{4}$ D) $\frac{14}{3}$ E) 5

Örnek-40

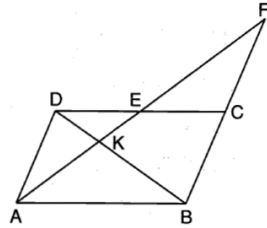
Şekilde; ABCD paralelkenar
E, F noktaları
bulundukları kenarların
orta noktalarıdır.
|CF| = 30 cm ise
|FK| kaç cm dir?



- A) 18 B) 16 C) 14 D) 12 E) 9

Örnek-38

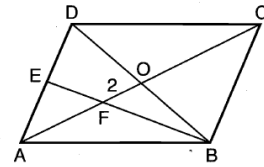
ABCD
paralelkenar
|AB| = 3|DE|
olduğuna göre
 $\frac{|EF|}{|EK|}$ kaçtır?



- A) 4 B) 5 C) 6 D) 7 E) 8

Örnek-41

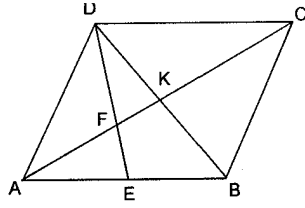
ABCD paralelkenar
 $[AC] \cap [BD] = \{O\}$
B, F, E doğrusal
|AE| = |ED|
|OF| = 2 cm ise
|AC| kaç cm dir?



- A) 6 B) 8 C) 10 D) 12 E) 14

Örnek-42

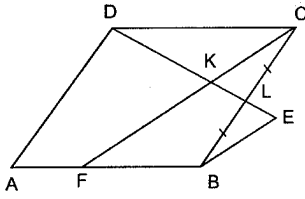
Şekilde;
 ABCD paralelkenar
 $|BE| = 2|AE|$
 $|AC| = 60$ cm ise
 $|FK|$ kaç cm dir?



- A) 10 B) 15 C) 20 D) 25 E) 30

Örnek-43

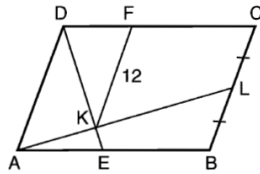
Şekildeki; ABCD
 paralelkenardır.
 $|FB| = 4|AF|$
 $|BL| = |LC|$
 $|BE| \parallel |CF|$
 $|EL| = 20$ cm ise
 $|DK|$ kaç cm dir?



- A) 40 B) 45 C) 50 D) 60 E) 70

Örnek-44

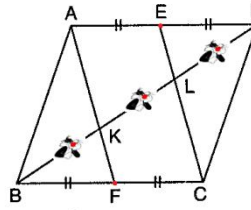
ABCD
 paralelkenar
 $|CL| = |LB|$
 $|EB| = 2|AE|$
 $|FK| \parallel |BC|$
 $|FK| = 12$ cm ise
 $|AD|$ kaç cm dir?



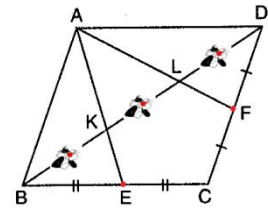
- A) 13 B) $\frac{27}{2}$ C) 14 D) $\frac{29}{2}$ E) 15

Mola😊

■ E ve F kenar orta noktalar



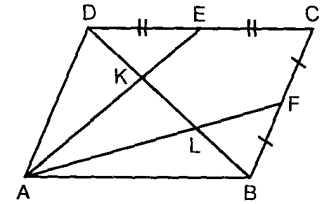
$$|BK| = |KL| = |LD|$$



$$|BK| = |KL| = |LD|$$

**Örnek-45**

ABCD paralelkenar
 $|AE| \cap |AF| = \{A\}$
 $|DE| = |EC|$
 $|CF| = |FB|$
 $|DB| = 24$ cm

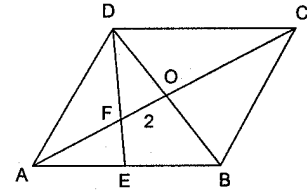


olduğuna göre, $|KL|$ kaç cm dir?

- A) 5 B) 6 C) 7 D) 8 E) 9

Örnek-46

Şekilde; ABCD
 paralelkenar
 $|AE| = |EB|$
 $|FO| = 2$ cm ise
 $|AC|$ kaç cm dir?



- A) 6 B) 8 C) 10 D) 12 E) 18

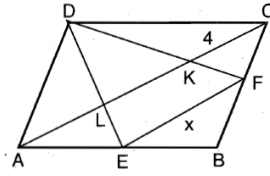
Örnek-47

ABCD paralelkenar

[AC] köşegen

 $|CF| = |FB|$ $|AE| = |EB|$ $|CK| = 4$ cm ise $|EF| = x$

kaç cm dir?

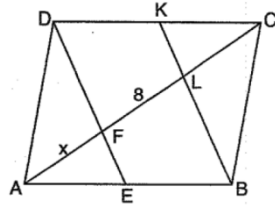


- A) 6 B) 8 C) 9 D) 10 E) 12

Örnek-48

ABCD paralelkenar

E ve K orta noktalar

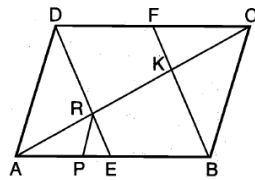
 $|FL| = 8$ cm $|AF| = x$ Yukarıdaki verilere göre, $|AF| = x$ kaç cm dir?

- A) 4 B) 6 C) 7 D) 8 E) 10

Örnek-49

ABCD

paralelkenar

 $|DF| = |FC|$ $|AE| = |EB|$ $[PR] \parallel [BC]$ $|BC| = 12$ cmise $|RP|$ kaç cm dir?

- A) 4 B) 5 C) 6 D) 8 E) 9

■ ABCD paralelkenar

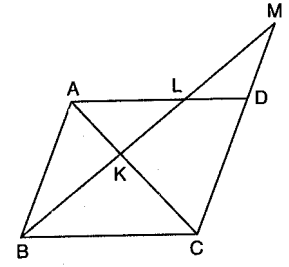
[AC] köşegen

B, G, F, E ve E, D, C

doğrusal noktalar

 $|FE| = 5$ birim

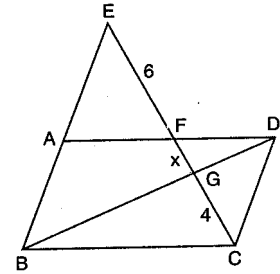
$$|BK|^2 = |KL| \cdot |KM|$$

**Örnek-50**

ABCD paralelkenar

EBC bir üçgen

[BD] köşegen

 $|EF| = 6$ birim $|GC| = 4$ birim $|FG| = x$ Yukarıdaki verilere göre, $|FG| = x$ kaç birimdir?

- A) 1 B) 2 C) $\frac{5}{2}$ D) 3 E) 4

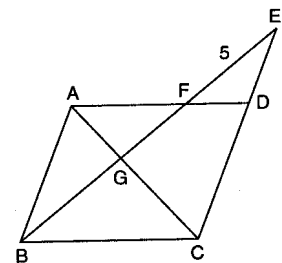
Örnek-51

ABCD paralelkenar

[AC] köşegen

B, G, F, E ve E, D, C

doğrusal noktalar

 $|FE| = 5$ birim $|BG|$, $|GF|$ den 2 birim büyük olduğuna göre, $\frac{|AB|}{|ED|}$ oranı kaçtır?

- A) 3 B) 4 C) 5 D) 6 E) 7

Örnek-52

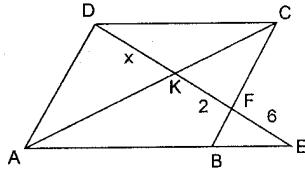
Şekilde; ABCD

paralelkenar

 $|EF| = 6$ cm $|FK| = 2$ cm ise $|DK| = x$

kaç cm dir?

- A) 8 B) 7 C) 6 D) 5 E) 4

**Örnek-54**

Şekilde; ABCD

paralelkenarının

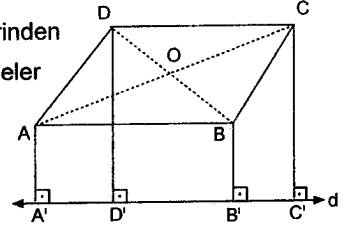
A, B, C, D köşelerinden

d doğrusuna dikmeler

çizilmiştir.

 $|BB'| = 6$ cm $|DD'| = 14$ cm $|CC'| = 18$ cm ise $|AA'|$ kaç cm dir?

- A) 1 B) 2 C) 3 D) 4 E) 5

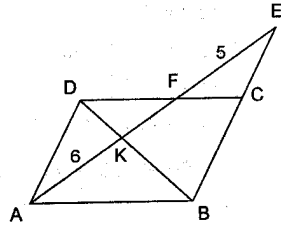
**Örnek-53**

Şekilde; ABCD

paralelkenar

 $|AK| = 6$ cm $|FE| = 5$ cm ise $|KF|$ kaç cm dir?

- A) 1 B) 2 C) 3 D) 4 E) 6

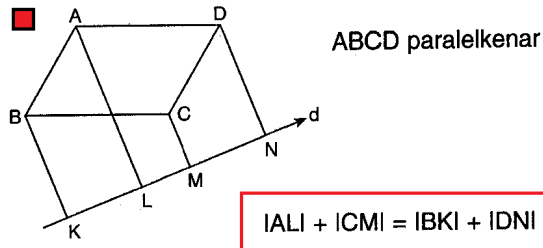
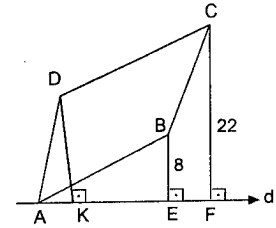
**Örnek-55**

Şekilde; ABCD

paralelkenar

 $CF \perp d$, $BE \perp d$ $|CF| = 22$ cm $|BE| = 8$ cm ise $|DK|$ kaç cm dir?

- A) 12 B) 13 C) 14 D) 15 E) 16



$$|AL| + |CM| = |BK| + |DN|$$

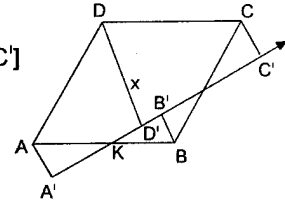
Örnek-56

Şekilde; ABCD

paralelkenar

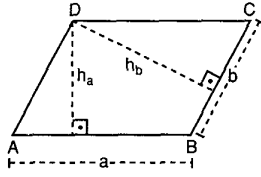
 $|AA'|/|DD'|/|BB'|/|CC'|$ $|AA'| = 6$ cm $|BB'| = 3$ cm $|DC'| = 9$ cm ise $|DD'| = x$ kaç cm dir?

- A) 12 B) 14 C) 15 D) 16 E) 18



MOLA😊

- Paralelkenarın alanı, bir kenar ve bu kenara ait yüksekliğin çarpımına eşittir.



$$\text{Alan}(ABCD) = a \cdot h_a = b \cdot h_b$$

$$\text{Çevre}(ABCD) = 2(a + b)$$

Örnek-57

Şekilde; ABCD

paralelkenar

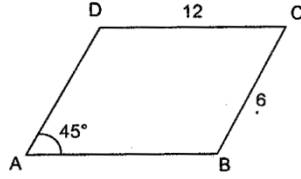
$$m(\hat{A}) = 45^\circ$$

$$|DC| = 12 \text{ cm}$$

$$|BC| = 6 \text{ cm}$$

Alan(ABCD) kaç cm^2 dir?

- A) $12\sqrt{2}$ B) $16\sqrt{2}$ C) $18\sqrt{2}$ D) $24\sqrt{2}$ E) $36\sqrt{2}$



Örnek-58

Şekilde; ABCD

paralelkenar

$$[DE] \perp [AB]$$

$$[DF] \perp [BC]$$

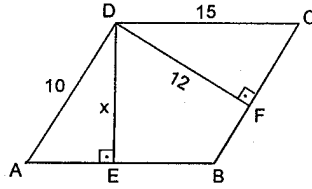
$$|DA| = 10 \text{ cm}$$

$$|DC| = 15 \text{ cm}$$

$$|DF| = 12 \text{ cm}$$

$$|DE| = x \text{ kaç cm dir?}$$

- A) 6 B) 7 C) 8 D) 9 E) 9,2



Örnek-59

Şekilde; ABCD

paralelkenar

$$[BK] \perp [AD]$$

$$[EF] \perp [DC]$$

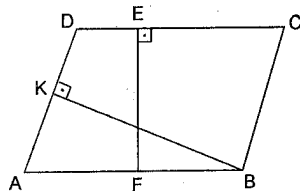
$$|EF| = x \text{ cm}$$

$$|KB| = x + 9 \text{ cm}$$

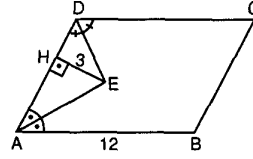
$$|AB| = 18 \text{ cm}, |AD| = 9 \text{ cm}$$

Alan (ABCD) kaç cm^2 dir?

- A) 200 B) 180 C) 172 D) 162 E) 152



Örnek-60



ABCD bir paralelkenar

[DE] ve [AE] açıortay

$$[EH] \perp [AD]$$

$$|AB| = 12 \text{ cm}$$

$$|EH| = 3 \text{ cm}$$

Yukarıdaki verilere göre, ABCD paralelkenarının alanı kaç cm^2 dir?

- A) 36 B) 44 C) 72 D) 76 E) 84

Örnek-61

Şekilde; ABCD

paralelkenar

[DE] ve [CE] açıortay

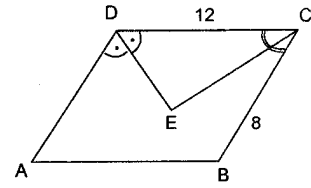
$$|DC| = 12 \text{ cm}$$

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

$$\text{Alan}(\triangle DEC) = 18 \text{ cm}^2$$

Alan(ABCD) kaç cm^2 dir?

- A) 32 B) 36 C) 42 D) 44 E) 48



Örnek-62

Şekilde; ABCD

paralelkenar

[AF] açıortay

$$[FE] \perp [BC]$$

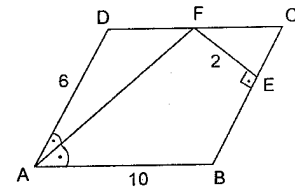
$$|AD| = 6 \text{ cm}$$

$$|AB| = 10 \text{ cm}$$

$$|FE| = 2 \text{ cm}$$

Alan (ABCD) kaç cm^2 dir?

- A) 24 B) 30 C) 36 D) 40 E) 60

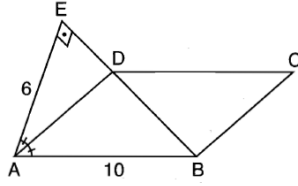


Örnek-63

ABCD paralelkenar

 $[AE] \perp [EB]$ $m(\widehat{EAD}) = m(\widehat{DAB})$ $|AE| = 6 \text{ cm}$ $|AB| = 10 \text{ cm}$ ise**A(ABCD)**kaç cm^2 dir?

- A) 20 B) 25 C) 30 D) 40 E) 45

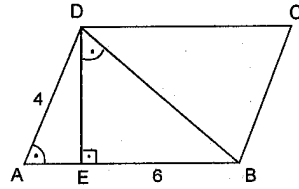
**Örnek-64**

Şekilde; ABCD

paralelkenar

 $DE \perp AB$ $m(\widehat{A}) = m(\widehat{EDB})$ $|EB| = 6 \text{ cm}$ $|AD| = 4 \text{ cm}$ ise**Alan(ABCD)** kaç cm^2 dir?

- A)
- $6\sqrt{3}$
- B)
- $8\sqrt{3}$
- C)
- $9\sqrt{3}$
- D)
- $12\sqrt{3}$
- E)
- $16\sqrt{3}$

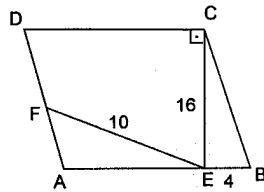
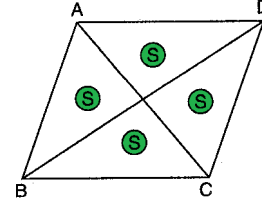
**Örnek-65**

Şekilde; ABCD

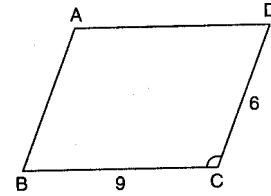
paralelkenar

 $[EC] \perp [DC]$ $|AF| = |FD|$ $|FE| = 10 \text{ cm}$ $|EC| = 16 \text{ cm}$ $|EB| = 4 \text{ cm}$ ise**Alan(ABCD)** kaç cm^2 dir?

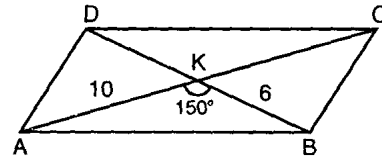
- A) 128 B) 108 C) 96 D) 72 E) 64

**■ Köşegenler, paralelkenarın alanını dört eş alanlı üçgene ayırır.****Örnek-66**

ABCD paralelkenar

 $|CD| = 6 \text{ birim}$ $|BC| = 9 \text{ birim}$  $\sin(\widehat{C}) = \frac{3}{8}$ olduğuna göre, ABCD paralelkenarının alanını bulunuz.

- A)
- $\frac{21}{5}$
- B)
- $\frac{16}{5}$
- C)
- $\frac{14}{5}$
- D) 13 E)
- $\frac{81}{4}$

Örnek-67ABCD paralelkenar, $[AC]$ ve $[BD]$ köşegen $m(\widehat{AKB}) = 150^\circ$, $|AK| = 10 \text{ cm}$, $|BK| = 6 \text{ cm}$ olduğuna göre, **Alan(ABCD)** kaç cm^2 dir?

- A) 50 B) 60 C) 65 D) 70 E) 75

MOLA😊

Örnek-68

Şekilde; ABCD

paralelkenardır

E ve F

bulundukları

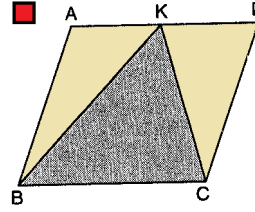
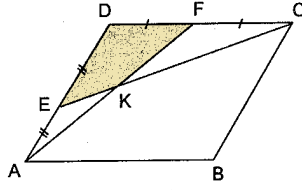
kenarların

orta noktalarıdır.

Alan(EKFD) = 6 cm² ise

Alan(ABCD) kaç cm² dir?

- A) 18 B) 24 C) 30 D) 36 E) 42



$K \in [AD]$

$$A(KBC) = \frac{1}{2} \cdot A(ABCD)$$

Örnek-69

Şekilde; ABCD

paralelkenar

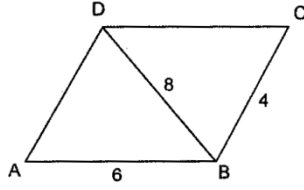
$|AB| = 6$ cm

$|DB| = 8$ cm

$|BC| = 4$ cm ise

Alan(ABCD) kaç cm² dir?

- A) $6\sqrt{15}$ B) $5\sqrt{15}$ C) $4\sqrt{15}$ D) $3\sqrt{15}$ E) $2\sqrt{15}$

**Örnek-71**

Şekilde;

ABCD paralelkenar

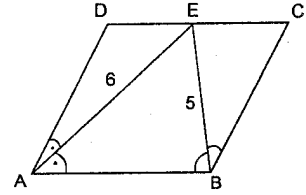
$[AE]$ ile $[BE]$ açıortay

$|AE| = 6$ cm

$|BE| = 5$ cm ise

Alan(ABCD) kaç cm² dir?

- A) 20 B) 25 C) 30 D) 32 E) 40

**Örnek-70**

Şekilde; ABCD

paralelkenar

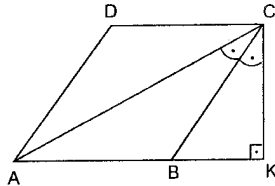
$m(\hat{ACB}) = m(\hat{BCK})$

$[CK] \perp [AK]$

$|AC| \cdot |BK| = 36$ cm² ise

Alan(ABCD) kaç cm² dir?

- A) 18 B) 24 C) 36 D) 54 E) 72

**Örnek-72**

Şekilde; $[BE] \perp [DC]$

$[KB]$, $\hat{AKC}$ nin

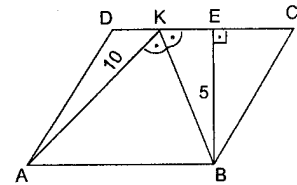
açıortayıdır.

$|AK| = 10$ cm

$|BE| = 5$ cm ise

Alan(ABCD) kaç cm² dir?

- A) 30 B) 40 C) 50 D) 60 E) 70



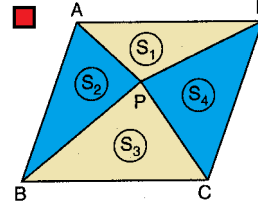
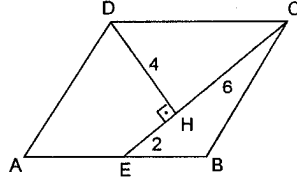
Örnek-73

Şekilde; ABCD

paralelkenar

 $[DH] \perp [CE]$ $|DH| = 4$ cm $|EH| = 2$ cm $|HC| = 6$ cm ise**A(ABCD) kaç cm^2 dir?**

A) 28 B) 32 C) 40 D) 52 E) 64



$$S_1 + S_3 = S_2 + S_4$$

$$S_1 + S_3 = \frac{A(ABCD)}{2}$$

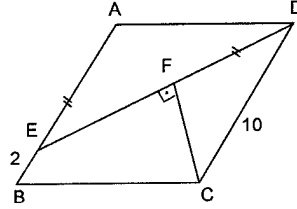
Örnek-74

Şekilde; ABCD

paralelkenar

 $[CF] \perp [ED]$ $|FD| = |AE|$ $|BE| = 2$ cm $|CD| = 10$ cm $|EF| = 12$ cm ise**A(AED) kaç cm^2 dir?**

A) 48 B) 52 C) 54 D) 60 E) 72

**Örnek-76**

Şekilde; ABCD

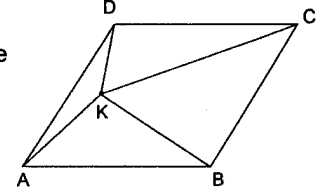
paralelkenarın içinde

K noktası

herhangi bir nokta

Alan(AKB)=8 cm^2 Alan(DKC)=16 cm^2 **Alan(ABCD) kaç cm^2 dir?**

A) 24 B) 36 C) 40 D) 48 E) 72

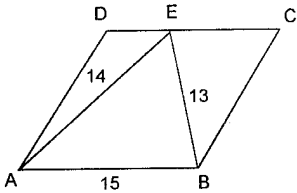
**Örnek-75**

Şekilde; ABCD

paralelkenar

 $|AB| = 15$ cm $|AE| = 14$ cm $|BE| = 13$ cm ise**Alan(ABCD) kaç cm^2 dir?**

A) 168 B) 90 C) 84 D) 72 E) 64

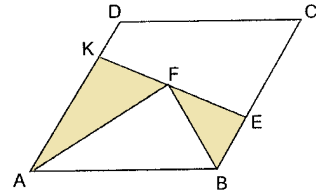
**Örnek-77**

Şekilde; ABCD

paralelkenar

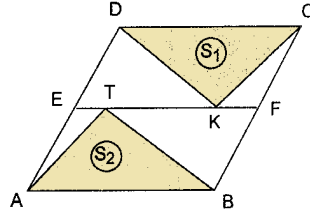
 $|AK| = 4 |KD|$ $|EC| = 3 |EB|$ Alan(AFK)=8 cm^2 Alan(BEF) = 3 cm^2 ise**Alan(ABCD) kaç cm^2 dir?**

A) 54 B) 48 C) 44 D) 42 E) 40



Örnek-78

Şekilde;
ABCD
paralelkenar
[DC] // [EF] // [AB]
 $S_1 + S_2 = 10 \text{ cm}^2$ ise



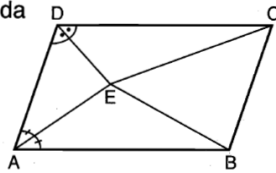
Alan(ABCD) kaç cm^2 dir?

- A) 16 B) 20 C) 22 D) 26 E) 30

Örnek-79

ABCD paralelkenarında
[DE] ve [AE] açıortaylardır.

$\frac{A(DEC)}{A(ABCD)}$ kaçtır?



- A) $\frac{1}{8}$ B) $\frac{1}{6}$ C) $\frac{1}{5}$ D) $\frac{1}{4}$ E) $\frac{1}{3}$

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Örnek-80

Şekilde; ABCD

paralelkenar

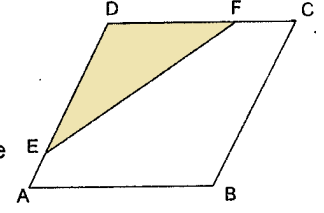
$|DE| = 3 |EA|$

$|DF| = 4 |FC|$

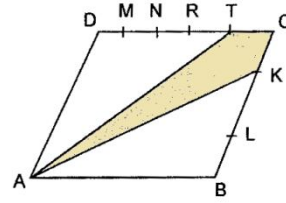
Alan(EDF) = 12 cm^2 ise

Alan(ABCD)

kaç cm^2 dir?



- A) 20 B) 30 C) 35 D) 40 E) 50

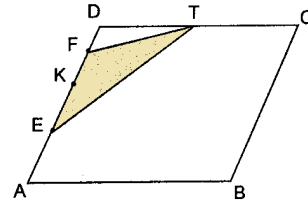
Örnek-81

Şekilde; ABCD paralelkenar

$|DM| = |MN| = |NR| = |RT| = |TC|$, $|BL| = |LK| = |KC|$

$A(ABCD) = 180 \text{ cm}^2$ ise Alan(AKCT) kaç cm^2 dir?

- A) 36 B) 42 C) 48 D) 52 E) 64

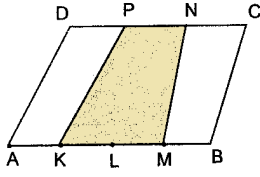
Örnek-82

Şekilde; ABCD paralelkenar $|DT| = |TC|$

Alan(ABCD) = 160 cm^2 , $|AE| = |EK| = |KF| = |FD|$ ise

Alan(EFT) kaç cm^2 dir?

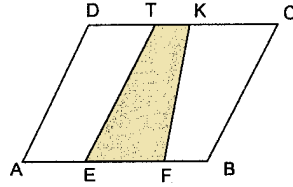
- A) 10 B) 15 C) 20 D) 30 E) 40

Örnek-83

Şekildeki; ABCD paralelkenarında [BA] dört, [DC] üç eşit parçaya bölünmüştür. Taralı alan 20 cm^2 ise ABCD paralelkenarının alanı kaç cm^2 dir?
A) 60 B) 48 C) 42 D) 36 E) 24

Örnek-84

Şekildeki;
ABCD
paralelkenarın
alanı 48 cm^2
 $|EF| = \frac{1}{3} |AB|$
 $|TK| = \frac{1}{4} |DC|$ ise

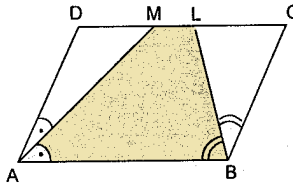


Alan(EFKT) kaç cm^2 dir?

- A) 7 B) 12 C) 14 D) 16 E) 21

Örnek-85

Şekilde; ABCD
paralelkenar
[MA] ile [LB]
açıortay
 $\frac{|AD|}{|ML|} = \frac{3}{2}$ ise

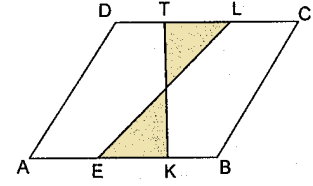


$\frac{A(ABLM)}{A(ABCD)}$ oranı kaçtır?

- A) $\frac{2}{5}$ B) $\frac{3}{5}$ C) $\frac{2}{7}$ D) $\frac{3}{8}$ E) $\frac{5}{8}$

Örnek-86

Şekilde; ABCD
paralelkenar
 $|AB| = 3 |EK|$
 $|DC| = 2 |TL|$



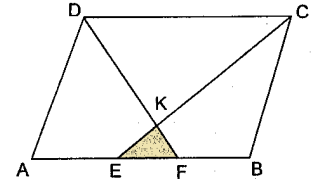
Alan(ABCD) = 120 cm^2 ise

taralı alanın toplamı kaç cm^2 dir?

- A) 26 B) 28 C) 30 D) 32 E) 36

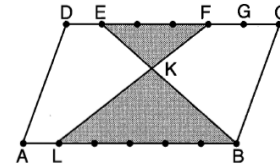
Örnek-87

Şekilde;
ABCD
paralelkenar
 $|AE| = |EF| = |FB|$
Alan(EFK) = 6 cm^2 ise



Alan (ABCD) kaç cm^2 dir?

- A) 124 B) 130 C) 144 D) 156 E) 160

Örnek-88

ABCD paralelkenarında [AB] ve [CD] altışar eşit parçaya bölünmüştür. $[EB] \cap [LF] = \{K\}$
 $A(ABCD) = 144 \text{ cm}^2$ ise taralı üçgenlerin alanları toplamı kaç cm^2 dir?

- A) 72 B) 62 C) 51 D) 48 E) 42

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Örnek-89

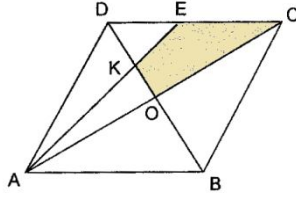
Şekilde;
ABCD
paralelkenar

$$|DE| = |EC|$$

$$A(KOCE) = 12 \text{ cm}^2 \text{ ise}$$

A(ABCD) kaç cm^2 dir?

- A) 48 B) 54 C) 64 D) 72 E) 96

**Örnek-92**

Şekilde;
ABCD
paralelkenar

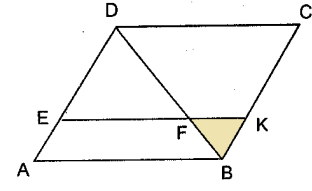
$$[EK] \parallel [AB]$$

$$|DE| = 3 |EA|$$

$$\text{Alan}(ABCD) = 32 \text{ cm}^2 \text{ ise}$$

Alan(FBK) kaç cm^2 dir?

- A) 8 B) 6 C) 4 D) 2 E) 1

**Örnek-90**

Şekilde;
ABCD
paralelkenar

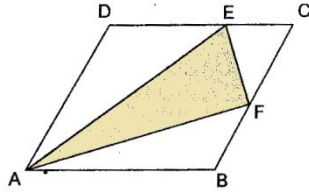
$$|BF| = 3 |FC|$$

$$|DE| = 3 |EC|$$

$$\text{Alan}(ABCD) = 64 \text{ cm}^2 \text{ ise}$$

Alan(AFE) kaç cm^2 dir?

- A) 12 B) 14 C) 16 D) 18 E) 20

**Örnek-93**

Şekilde;
ABCD
paralelkenar

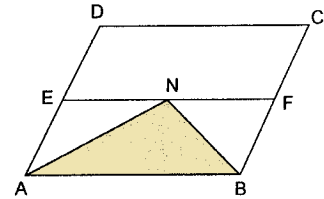
$$[EF] \parallel [AB]$$

$$|BF| = 3 |FC|$$

$$A(ABCD) = 80 \text{ cm}^2 \text{ ise}$$

A(ANB) kaç cm^2 dir?

- A) 20 B) 30 C) 35 D) 40 E) 60

**Örnek-91**

Şekilde; ABCD
paralelkenar

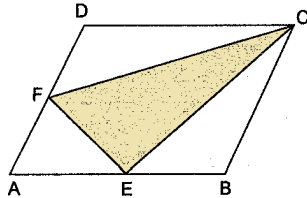
$$|AE| = |EB|$$

$$|AF| = 2 |FD|$$

$$A(ABCD) = 120 \text{ cm}^2 \text{ ise}$$

A(FEC) kaç cm^2 dir?

- A) 30 B) 40 C) 50 D) 60 E) 65

**Örnek-94**

Şekildeki; ABCD
paralelkenarında

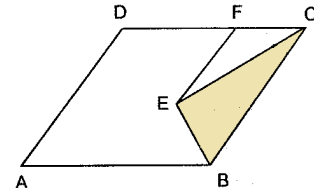
$$[EF] \parallel [BC]$$

$$2 |DF| = 5 |FC|$$

$$\text{Alan}(BCE) = 16 \text{ cm}^2 \text{ ise}$$

Alan(ABCD) kaç cm^2 dir?

- A) 72 B) 96 C) 108 D) 112 E) 120



Örnek-95

Şekilde; ABCD
paralelkenar

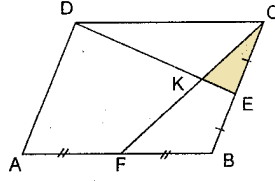
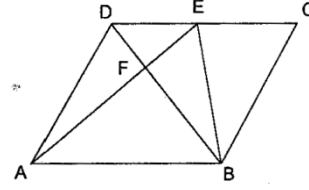
$$|AF| = |FB|$$

$$|BE| = |EC|$$

Alan(ABCD) = 60 cm² ise

Alan(KEC) kaç cm² dir?

- A) 2 B) 3 C) 4 D) 5 E) 6

**Örnek-98**

Şekilde; ABCD paralelkenar

$$\text{Alan}(\text{DFE}) + \text{Alan}(\text{AFB}) = 20 \text{ cm}^2$$

Alan(EBC) = 16 cm² ise Alan(ABF) kaç cm² dir?

- A) 18 B) 16 C) 15 D) 14 E) 12

Örnek-96

Şekilde; ABCD
paralelkenar

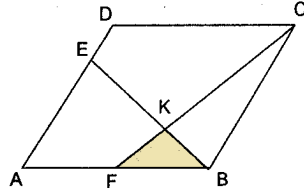
$$|FB| = 2 |AF|$$

$$|AE| = 3 |ED|$$

Alan (FBK) = 8 cm² ise

Alan (ABCD) kaç cm² dir?

- A) 64 B) 72 C) 81 D) 90 E) 96

**Örnek-99**

Şekilde; ABCD

paralelkenar

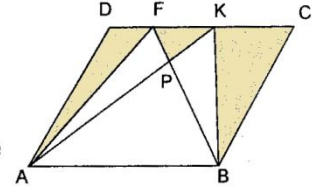
$$\text{Alan}(\text{BPK}) = 10 \text{ cm}^2$$

$$\text{Alan}(\text{ABCD}) = 60^\circ \text{ ise}$$

Taralı bölgelerin

alanlarının toplamı kaç cm² dir?

- A) 10 B) 20 C) 25 D) 30 E) 40

**Örnek-97**

Şekilde; ABCD

paralelkenar

F, E noktaları

bulundukları

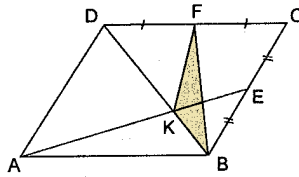
kenarların

orta noktalarıdır.

$$\text{Alan}(\text{KBF}) = 2 \text{ cm}^2 \text{ ise}$$

Alan(ABCD) kaç cm² dir?

- A) 16 B) 20 C) 24 D) 28 E) 32

**Örnek-100**

Şekilde; ABCD

paralelkenar

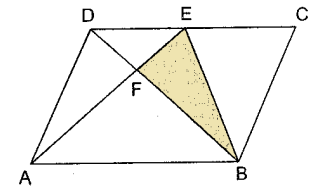
$$|DE| = |EC|$$

$$\text{A}(\text{FEB}) = 4 \text{ cm}^2$$

A(ABCD)

kaç cm² dir?

- A) 12 B) 16 C) 20 D) 24 E) 36



Örnek-101

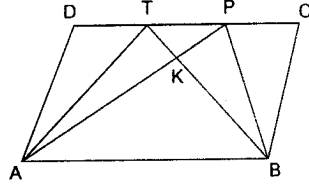
Şekilde;

ABCD

paralelkenar

Alan(ADT)=40 cm²Alan(TKP)=15 cm²Alan(AKB)=80 cm² iseAlan(BPC) kaç cm² dir?

A) 10 B) 15 C) 25 D) 30 E) 35

**Örnek-104**

Şekilde;

ABCD bir paralelkenar,

[AC] köşegen,

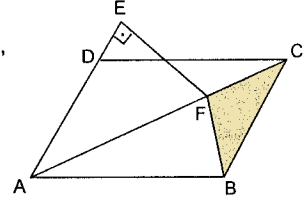
[EF] ⊥ [AE],

|AF| = 4|FC| dir.

|AD| = |EF| = 8 cm ise

A(FBC) kaç cm² dir?

A) 8 B) 12 C) 16 D) 24 E) 32

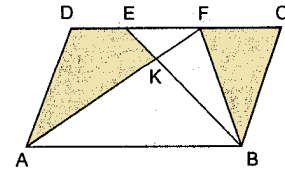
**Örnek-102**

Şekilde;

ABCD paralelkenar

A(EFK)=4 cm²A(BKF)=8 cm² iseAlan(BCF) + Alan(AKED) kaç cm² dir?

A) 20 B) 18 C) 16 D) 15 E) 12

**Örnek-105**

Şekilde; ABCD

paralelkenar

|AF| = |FD|

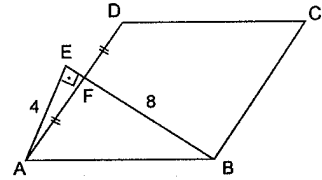
[AE] ⊥ [BE]

|AE| = 4 cm

|BF| = 8 cm ise

Alan(ABCD) kaç cm² dir?

A) 24 B) 36 C) 48 D) 54 E) 64

**Örnek-103**

Şekilde;

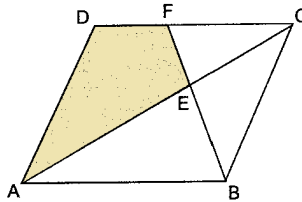
ABCD paralelkenar

Alan(EFC)=4 cm²Alan(EAB)=9 cm² ise

Alan(AEFD)

kaç cm² dir?

A) 15 B) 14 C) 13 D) 12 E) 11

**Örnek-106**

Şekilde; ABCD

paralelkenar

[AE] ⊥ [EC]

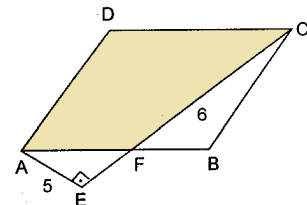
 $\frac{|AF|}{|FB|} = \frac{3}{2}$

|AE| = 5 cm

|FC| = 6 cm

Alan(AFCD) kaç cm² dir?

A) 40 B) 35 C) 30 D) 25 E) 20



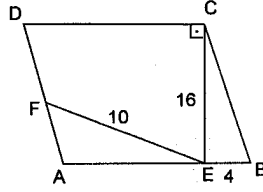
Örnek-107

Şekilde; ABCD

paralelkenar

 $[EC] \perp [DC]$ $|AF| = |FD|$ $|FE| = 10$ cm $|EC| = 16$ cm $|EB| = 4$ cm ise**Alan(ABCD) kaç cm^2 dir?**

A) 128 B) 108 C) 96 D) 72 E) 64

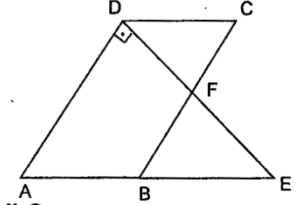
**Örnek-109**

Şekilde; ABCD

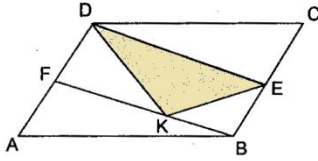
paralelkenar

 $[AD] \perp [DE]$ $|ED| = 12$ cm $|FC| = 6$ cm ise**Alan(ABCD) kaç cm^2 dir?**

A) 36 B) 48 C) 72 D) 84 E) 96



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Örnek-108Şekildeki; ABCD paralelkenardır. K ve E bulundukları kenarların orta noktalarıdır. $K \in [FB]$ Alan(DKE)=8 cm^2 ise **Alan(ABCD) kaç cm^2 dir?**

A) 32 B) 30 C) 28 D) 24 E) 18

- | | | | | |
|-------|-------|-------|-------|--------|
| 1. D | 23. C | 45. D | 67. B | 89. D |
| 2. B | 24. C | 46. D | 68. D | 90. B |
| 3. D | 25. D | 47. A | 69. A | 91. C |
| 4. D | 26. B | 48. D | 70. C | 92. E |
| 5. D | 27. B | 49. A | 71. C | 93. B |
| 6. A | 28. C | 50. B | 72. C | 94. D |
| 7. E | 29. A | 51. 2 | 73. B | 95. B |
| 8. B | 30. B | 52. E | 74. A | 96. B |
| 9. D | 31. A | 53. D | 75. A | 97. C |
| 10. D | 32. B | 54. B | 76. D | 98. A |
| 11. C | 33. C | 55. C | 77. C | 99. B |
| 12. C | 34. C | 56. E | 78. B | 100. D |
| 13. D | 35. E | 57. E | 79. D | 101. C |
| 14. C | 36. D | 58. C | 80. D | 102. A |
| 15. E | 37. D | 59. D | 81. C | 103. E |
| 16. B | 38. E | 60. C | 82. C | 104. A |
| 17. D | 39. D | 61. E | 83. B | 105. E |
| 18. D | 40. A | 62. B | 84. C | 106. A |
| 19. B | 41. D | 63. C | 85. E | 107. A |
| 20. E | 42. B | 64. E | 86. A | 108. A |
| 21. B | 43. C | 65. A | 87. C | 109. C |
| 22. E | 44. C | 66. E | 88. C | |