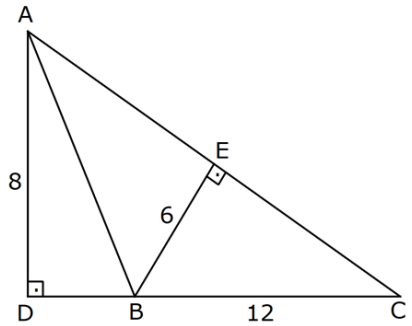
ÜÇGENİN ALANI

1)



ADC üçgen

$AD \perp DC$

$BE \perp AC$

$|AD| = 8$ cm

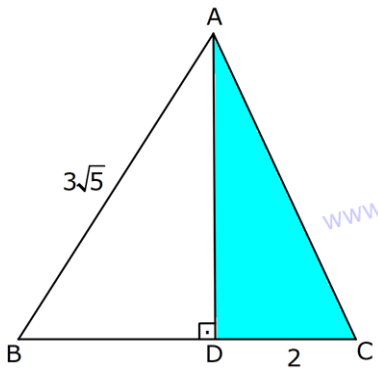
$|BE| = 6$ cm

$|BC| = 12$ cm

Yukarıda verilenlere $|AC|$ kaç cm dir?

A) 16 B) 18 C) 20 D) 24 E) 28

2)



ABC üçgen

$A(ADC) = 6$ cm^2

$AD \perp BC$

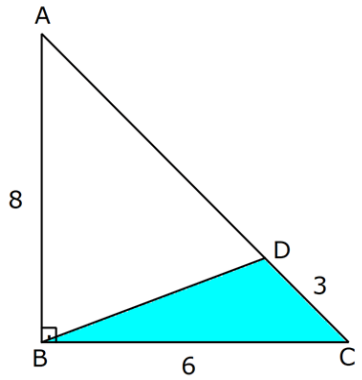
$|DC| = 2$ cm

$|AB| = 3\sqrt{5}$ cm

Yukarıda verilenlere göre, A(ABC) kaç cm^2 dir?

A) 9 B) 12 C) 15 D) 18 E) 21

3)



ABC üçgen

$AB \perp BC$

$|AB| = 8$ cm

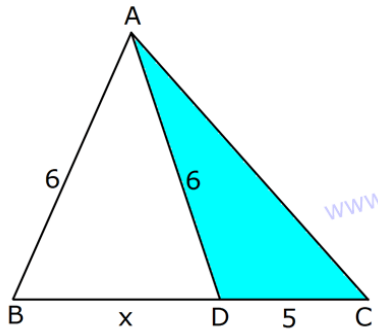
$|BC| = 6$ cm

$|DC| = 2$ cm

Yukarıda verilenlere göre, A(BDC) kaç cm^2 dir?

A) $\frac{15}{4}$ B) $\frac{25}{6}$ C) $\frac{35}{6}$ D) $\frac{36}{5}$ E) $\frac{72}{5}$

4)



ABC üçgen

$A(ADC) = 10$ cm^2

$|AB| = 6$ cm

$|AD| = 6$ cm

$|DC| = 5$ cm

$|BD| = x$

Yukarıda verilenlere göre, x kaç cm dir?

A) $3\sqrt{2}$ B) 8 C) $4\sqrt{5}$ D) $5\sqrt{3}$ E) 12

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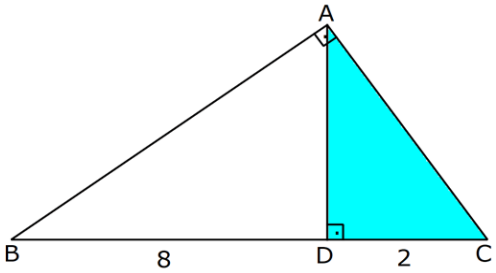
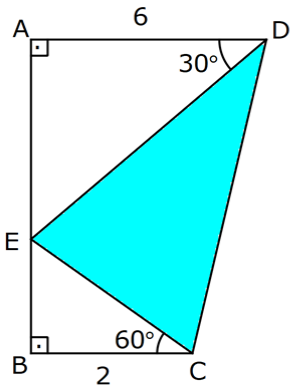
5)



ABC üçgen, $BA \perp AC$, $AD \perp BC$, $|BD| = 8$ cm, $|DC| = 2$ cm olduğuna göre, A(ADC) kaç cm^2 dir?

A) 4 B) 6 C) 8 D) 9 E) 10

6)

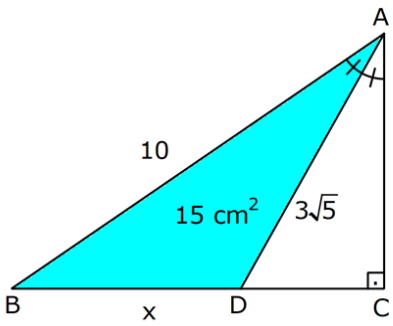


ABCD dörtgen
$AB \perp BC$
$BA \perp AD$
$m(ADE) = 30°$
$m(ECD) = 60°$
$|AD| = 6$ cm
$|BC| = 2$ cm

Yukarıda verilenlere göre, A(DEC) kaç cm^2 dir?

A) $5\sqrt{2}$ B) $6\sqrt{3}$ C) 12 D) $8\sqrt{3}$ E) $9\sqrt{2}$

7)

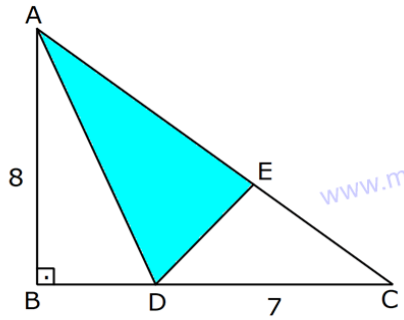


ABC üçgen
AD açıortay
$AC \perp BC$
$|AB| = 10$ cm
$|AD| = 3\sqrt{5}$ cm
$A(ABD) = 15\ cm^2$
$|BD| = x$

Yukarıda verilenlere göre, x kaç cm dir?

A) 3 B) $\frac{7}{2}$ C) 4 D) $\frac{9}{2}$ E) 5

8)



ABC üçgen
$AB \perp BC$
$|AB| = 8$ cm
$|DC| = 7$ cm
$3|AE| = 4|EC|$

Yukarıda verilenlere göre, A(ADE) kaç cm^2 dir?

A) 9 B) 12 C) 16 D) 18 E) 21

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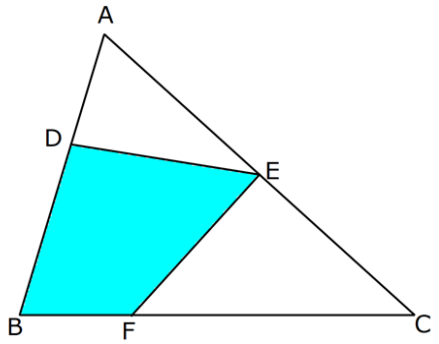
9)



ABC üçgen

$2|AE| = 3|EC|$

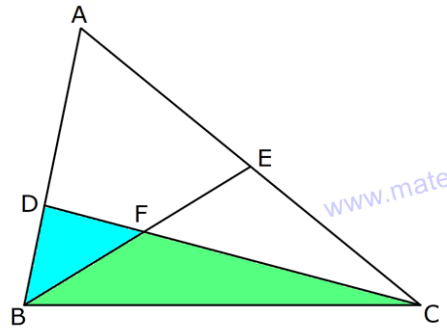
$3|AD| = |DB|$

$4|BF| = |FC|$

$A(ABC) = 100\ cm^2$ olduğuna göre, $A(BDEF)$ kaç cm^2 dir?

A) 45 B) 53 C) 58 D) 65 E) 75

10)



ABC üçgen

$3|BD| = 2|AD|$

$3|AE| = 4|EC|$

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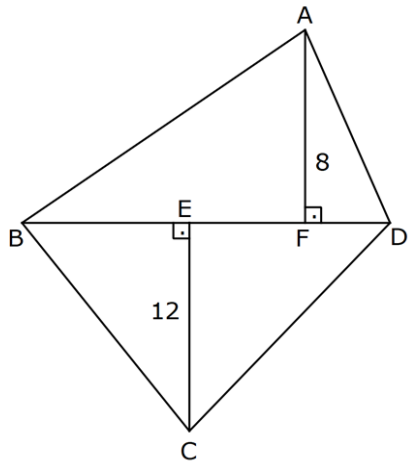
Yukarıda verilenlere göre, $\frac{A(BDF)}{A(BFC)}$ oranı kaçtır?

A) $\frac{2}{3}$ B) $\frac{7}{22}$ C) $\frac{8}{15}$ D) $\frac{6}{17}$ E) $\frac{9}{14}$

11)



ABCD dörtgen

$AF \perp BD$

$CE \perp BD$

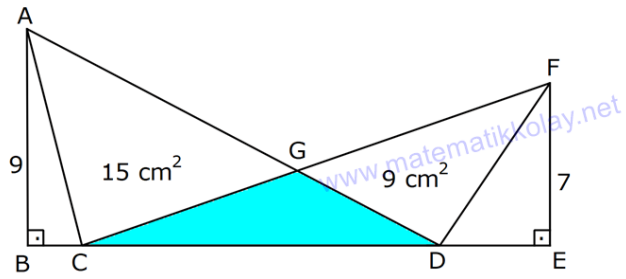
$|AF| = 8$ cm

$|EC| = 12$ cm

Yukarıda verilenlere göre, $\frac{A(ABD)}{A(ABCD)}$ oranı kaçtır?

A) $\frac{2}{5}$ B) $\frac{3}{4}$ C) $\frac{1}{6}$ D) $\frac{3}{8}$ E) $\frac{4}{7}$

12)



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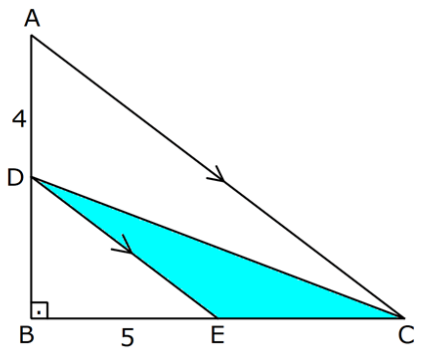
$A(ACG) = 15\ cm^2$, $A(GFD) = 9\ cm^2$, $AB \perp BE$, $FE \perp BE$

$|AB| = 9$ cm, $|FE| = 7$ cm olduğuna göre,

$A(CGD)$ kaç cm^2 dir?

A) 12 B) 14 C) 15 D) 18 E) 21

13)



ABC üçgen

$AB \perp BC$

$|AD| = 4$ cm

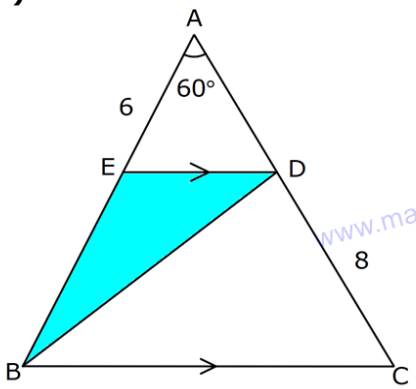
$|BE| = 5$ cm

AC // DE

Yukarıda verilenlere göre, A(EDC) kaç cm^2 dir?

A) 8 B) 10 C) 12 D) 15 E) 20

14)



ABC üçgen

ED // BC

$|AE| = 6$ cm

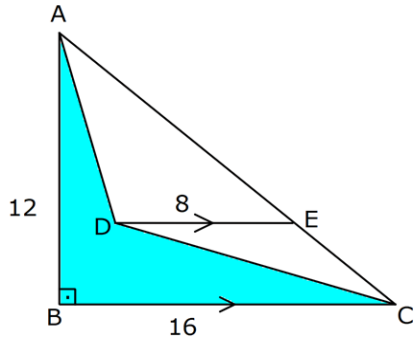
$|DC| = 8$ cm

$m(BAC) = 60°$

Yukarıda verilenlere göre, A(EBD) kaç cm^2 dir?

A) 9 B) $9\sqrt{3}$ C) 12 D) $12\sqrt{3}$ E) 15

15)



ABC üçgen

DE // BC

$|AB| = 12$ cm

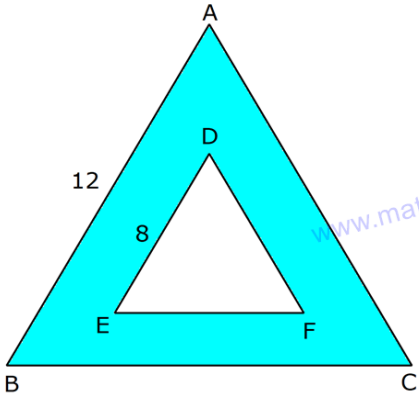
$|BC| = 16$ cm

$|DE| = 8$ cm

Yukarıda verilenlere göre, A(ABCD) kaç cm^2 dir?

A) 24 B) 36 C) 48 D) 56 E) 60

16)



ABC ve DEF birer eşkenar üçgen

$|AB| = 12$ cm

$|ED| = 8$ cm

Yukarıda verilenlere göre, taralı bölgenin alanı kaç cm^2 dir?

A) $12\sqrt{3}$ B) $15\sqrt{3}$ C) $16\sqrt{3}$ D) $20\sqrt{3}$ E) $24\sqrt{3}$

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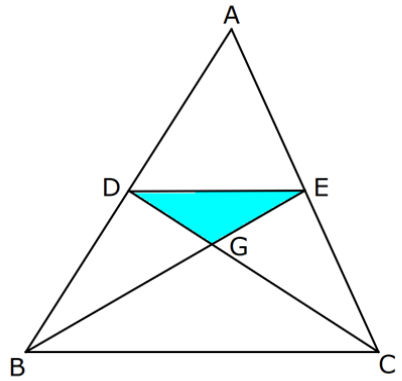
17)



ABC üçgen

BE ve DC

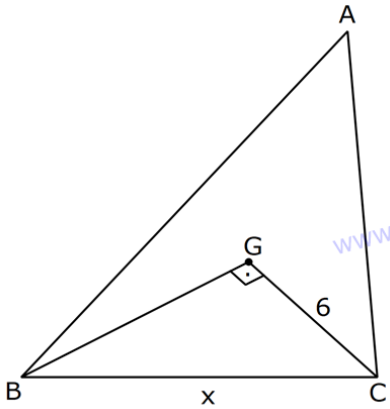
kenarortay

$A(DEG) = 12\ cm^2$

Yukarıda verilenlere göre, $A(ABC)$ kaç cm^2 dir?

A) 72 B) 80 C) 96 D) 112 E) 144

18)



G, ABC üçgenin

ağırlık merkezi

$A(ABC) = 45\ cm^2$

$|GC| = 6$ cm

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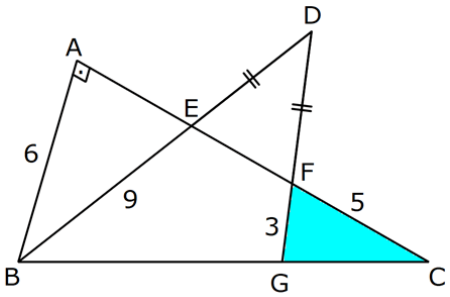
Yukarıda verilenlere göre, $|BC| = x$ kaç cm dir?

A) $\sqrt{53}$ B) $\sqrt{61}$ C) $3\sqrt{7}$ D) 8 E) 10

19)



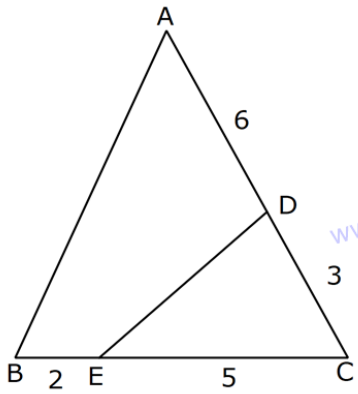
ABC ve BDG birer üçgen, $BA \perp AC$, $|DE| = |DF|$,

$|AB| = 6$ cm, $|BE| = 9$ cm, $|FG| = 3$ cm ve $|FC| = 5$ cm dir.

Buna göre, $A(FGC)$ kaç cm^2 dir?

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

20)



ABC ve DEC

birer üçgen

$|AD| = 6$ cm

$|DC| = 3$ cm

$|BE| = 2$ cm

$|EC| = 5$ cm

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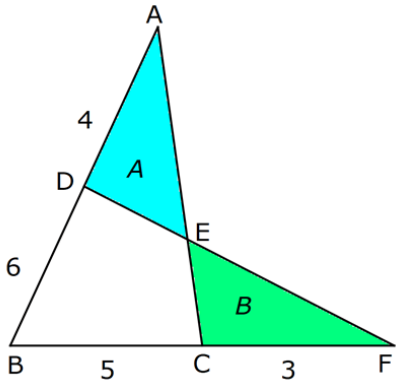
Yukarıda verilenlere göre, $\frac{A(DEC)}{A(ABC)}$ oranı kaçtır?

A) $\frac{3}{7}$ B) $\frac{2}{9}$ C) $\frac{5}{21}$ D) $\frac{7}{36}$ E) $\frac{5}{16}$

21)



ABC ve DBF

birer üçgen

$|AD| = 4$ cm

$|DB| = 6$ cm

$|BC| = 5$ cm

$|CF| = 3$ cm

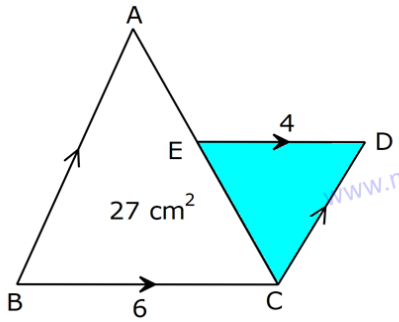
$A(ADE) = A$

$A(ECF) = B$

Yukarıda verilenlere göre, $\frac{A}{B}$ oranı kaçtır?

A) $\frac{25}{16}$ B) $\frac{17}{25}$ C) $\frac{36}{25}$ D) $\frac{15}{32}$ E) $\frac{32}{27}$

22)



ABC ve DEC birer üçgen

$|BC| = 6$ cm

$|ED| = 4$ cm

AB // DC

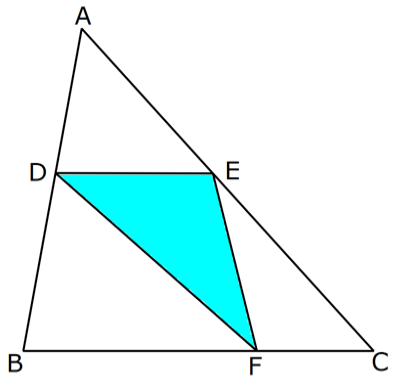
ED // BC

$A(ABC) = 27\ cm^2$

Yukarıda verilenlere göre, A(DEC) kaç cm^2 dir?

A) 9 B) 12 C) 15 D) 18 E) 21

23)



ABC ve DEF birer üçgen

DE // BC

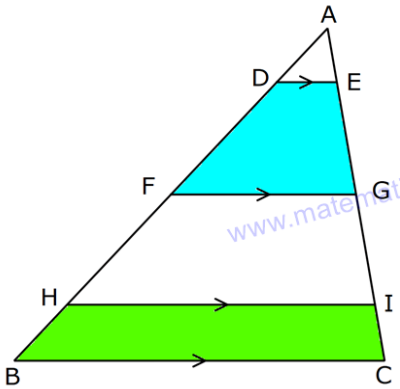
$A(ABC) = 49\ cm^2$

$A(ADE) = 16\ cm^2$

Yukarıda verilenlere göre, A(DEF) kaç cm^2 dir?

A) 12 B) 14 C) 16 D) 20 E) 25

24)



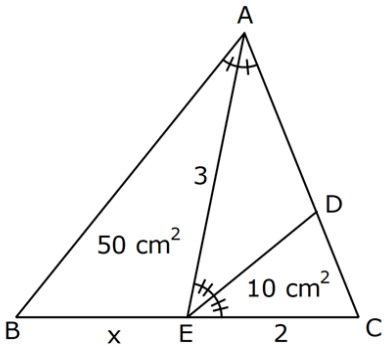
ABC üçgen, DE // FG // HI // BC ve

$|DF| = |HF| = 2|AD| = 2|HB|$ olduğuna göre,

$\frac{A(DFGE)}{A(HBCI)}$ oranı kaçtır?

A) $\frac{3}{4}$ B) $\frac{2}{3}$ C) $\frac{7}{12}$ D) $\frac{6}{13}$ E) $\frac{8}{11}$

25)



ABC üçgen

AE ve ED açıortay

$|AE| = 3$ cm

$|EC| = 2$ cm

$A(ABE) = 50\ cm^2$

$A(DEC) = 10\ cm^2$

Yukarıda verilenlere göre, $|BE| = x$ kaç cm dir?

A) 2 B) $\frac{5}{2}$ C) 3 D) 4 E) $\frac{9}{2}$

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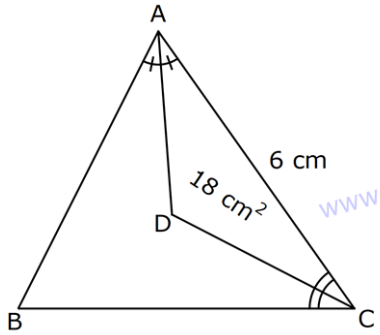
26) FEN LİSESİ



ABC üçgen

AD ve DC açıortay

$A(ADC) = 18\ cm^2$

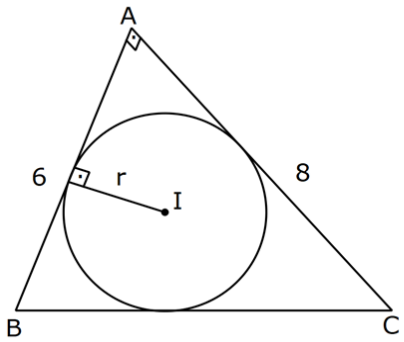
$|AB| + |BC| = 9\ cm$

$|AC| = 6\ cm$

Yukarıda verilenlere göre, A(ABC) kaç cm^2 dir?

A) 30 B) 36 C) 40 D) 45 E) 54

27) FEN LİSESİ



ABC üçgen

I, iç teğet çemberinin merkezi

$|AB| = 6\ cm$

$|AC| = 8\ cm$

$BA \perp AC$

Yukarıda verilenlere göre, iç teğet çemberinin merkezi r kaç cm dir?

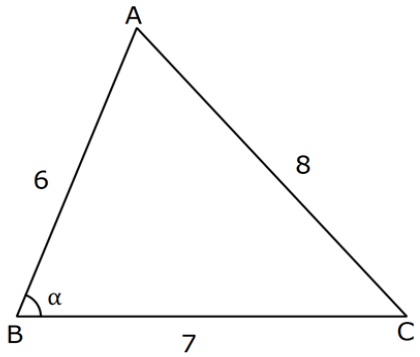
A) 2 B) $\frac{5}{2}$ C) 3 D) $\frac{7}{2}$ E) 4

28) FEN LİSESİ

Kenarları 8, 10 ve 14 cm olan bir üçgenin alanı kaç cm^2 dir?

A) 24 B) $12\sqrt{3}$ C) 25 D) $18\sqrt{2}$ E) $16\sqrt{6}$

29) FEN LİSESİ



ABC üçgen

$|AB| = 6\ cm$

$|AC| = 8\ cm$

$|BC| = 7\ cm$

$m(ABC) = \alpha$

Yukarıda verilenlere göre, $\sin\alpha$ kaçtır?

A) $\frac{2\sqrt{2}}{3}$ B) $\frac{3}{4}$ C) $\frac{2\sqrt{3}}{5}$ D) $\frac{\sqrt{15}}{4}$ E) $\frac{\sqrt{21}}{5}$

CEVAP ANAHTARI

1	A	**7**	E	**13**	B	**19**	A	**25**	D
2	C	**8**	C	**14**	D	**20**	C	**26**	D
3	D	**9**	B	**15**	C	**21**	E	**27**	A
4	C	**10**	C	**16**	D	**22**	C	**28**	E
5	A	**11**	A	**17**	E	**23**	A	**29**	D
6	D	**12**	A	**18**	B	**24**	E		

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