Together we can make math easier



Talis' theorem

Choose the correct answer

In the opposite figure :

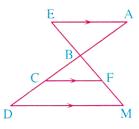
AB : BC : CD = **FB : BF : FM**

(a) AE : FC : MD (c) EB : BC : CD

1

(b) EB : B	F : FM
(d) EB : E	F:EM

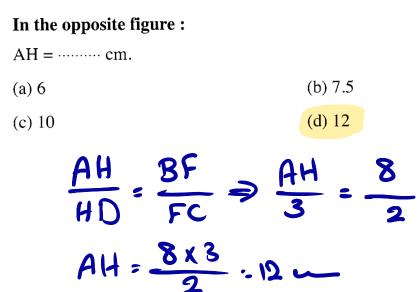
SUM T



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2



C²cm.F 5 cm. E ³ст. В H ADIN.

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In the opposite figure :

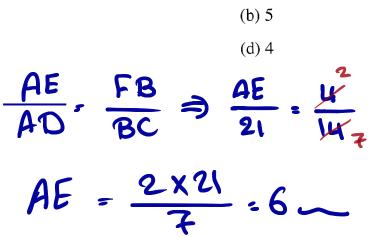
If DA = 21 cm., MC = 5 cm., FB = 4 cm.

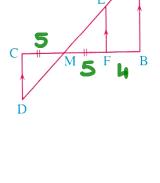
, then $AE = \dots \dots cm$.

(a) 3

3

(c) 6

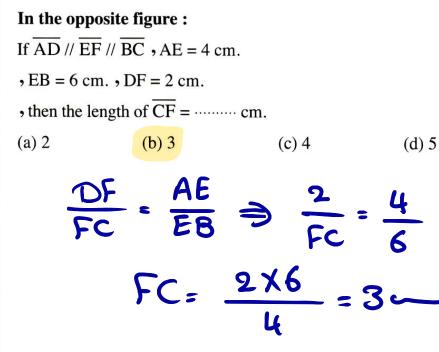


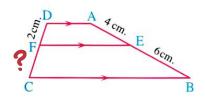


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4





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5

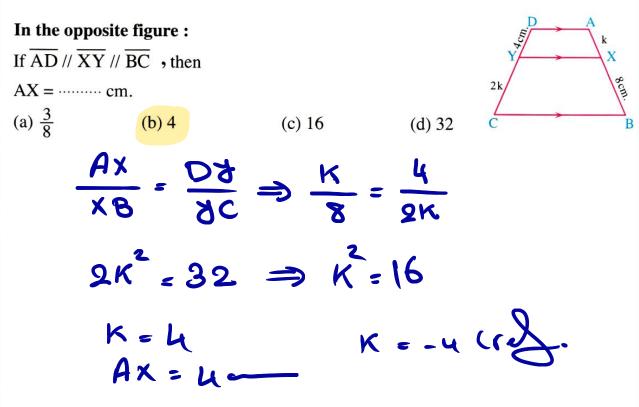
$$\frac{20}{CX} = \frac{5}{16} \implies CX = \frac{20 \times 16}{5} = 64$$

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Choose the correct answer

6





(X+1)

2x

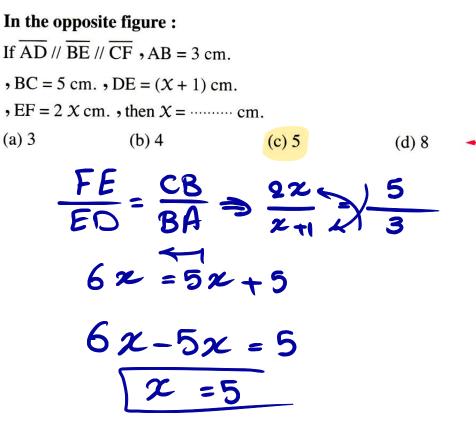
5

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BAA

Choose the correct answer

7





(c) AC

XZ = 4+4=8~

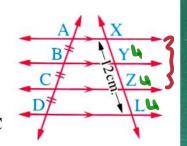


Choose the correct answer

In the opposite figure : If AB = BC = CD, XL = 12 cm., then $XZ = \cdots$ (b) YL

8

(d) BC

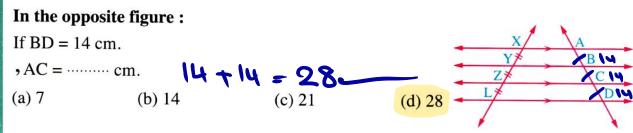


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Choose the correct answer

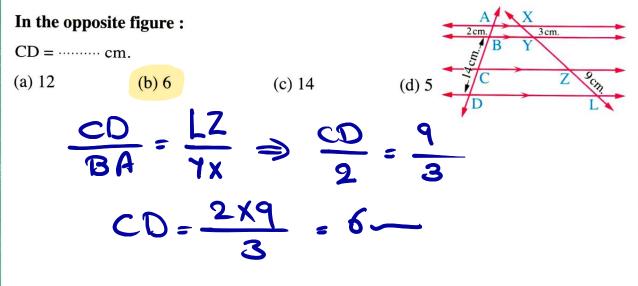
9





Choose the correct answer

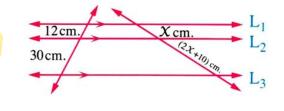
10



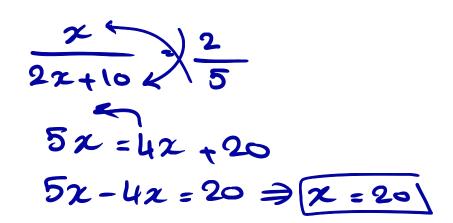


$\chi = \dots \dots cm.$	
(a) 10	(b) 20
(c) 15	(d) 8
X	12

22 tlo



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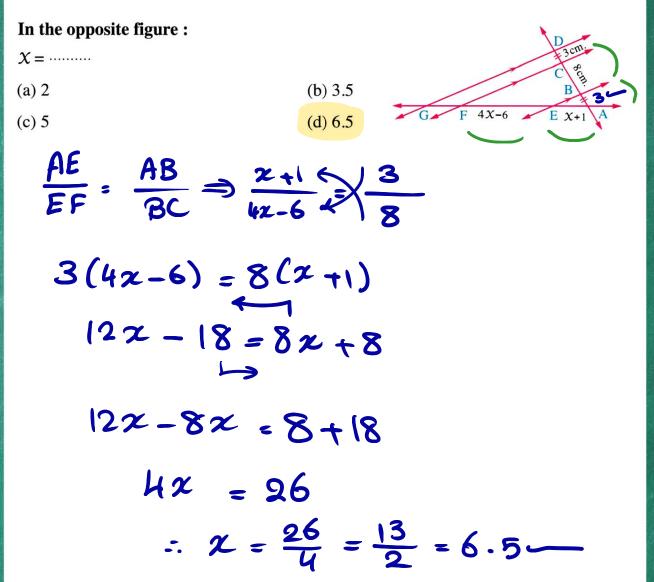


30



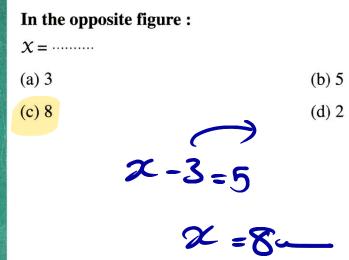
Choose the correct answer

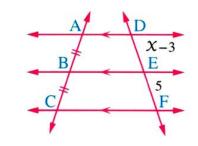
12





13





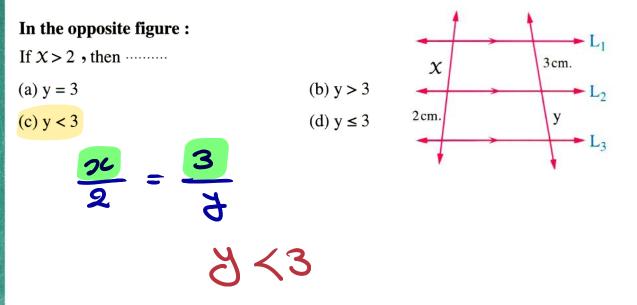
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Choose the correct answer

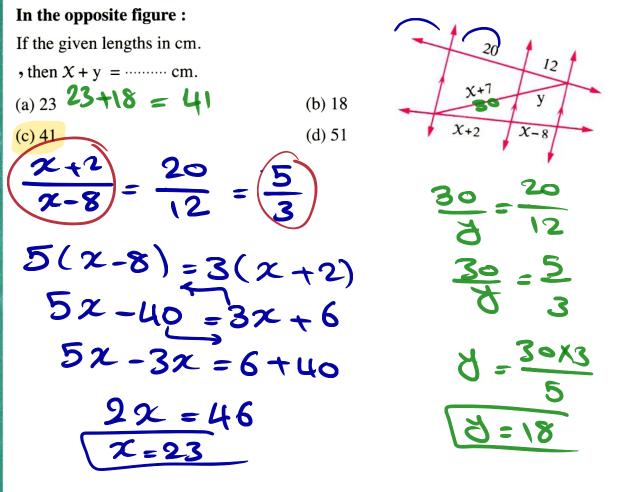
14





Choose the correct answer

15



(b) 7

(d) 12

3



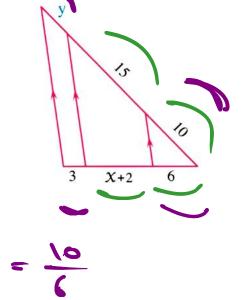
Choose the correct answer

In the opposite figure :

16

If the given lengths in cm.

	cm.
(a) 5 7 5	
(c) 11	
6	0
2+2=	15
242	13
6	2
$\frac{6}{\chi+2}$ =	3
2+2=	<u>6x3</u>
	2
x+2=	0
1 1 2 3	7
X =	

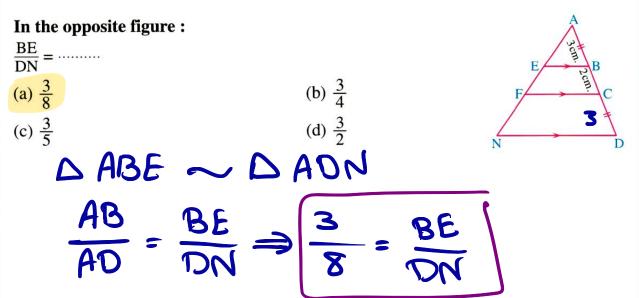


<u>3 XIO</u>

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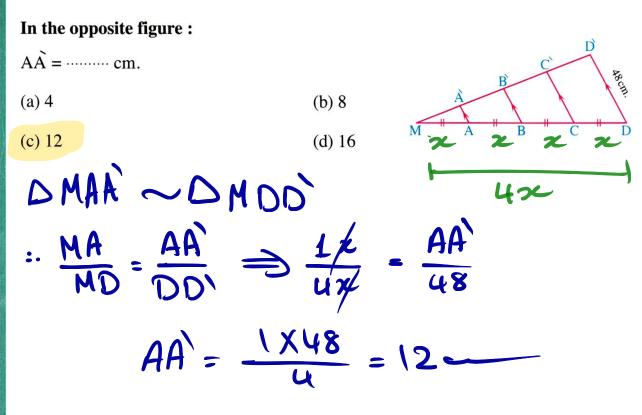
Choose the correct answer





Choose the correct answer

18





(b) 7

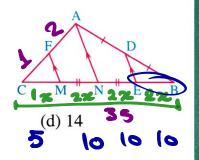
In the opposite figure : If BC = 35 cm. $,\frac{CF}{FA} = \frac{1}{2}$

, then $BE = \dots \dots cm$.

(a) 5

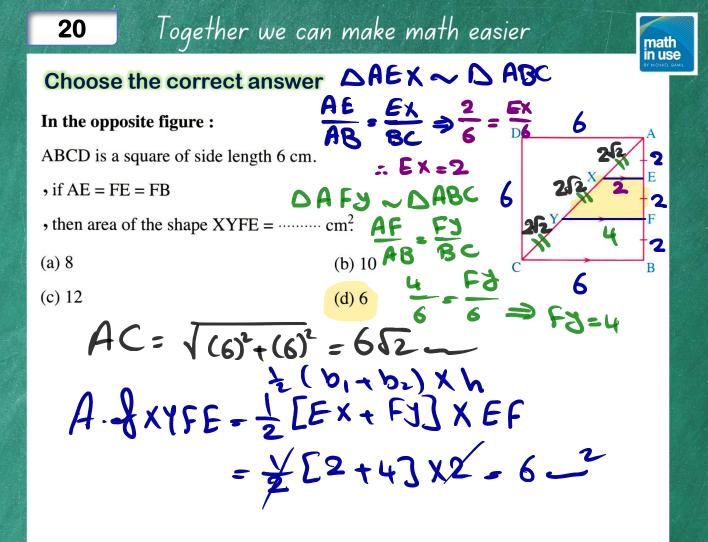
19





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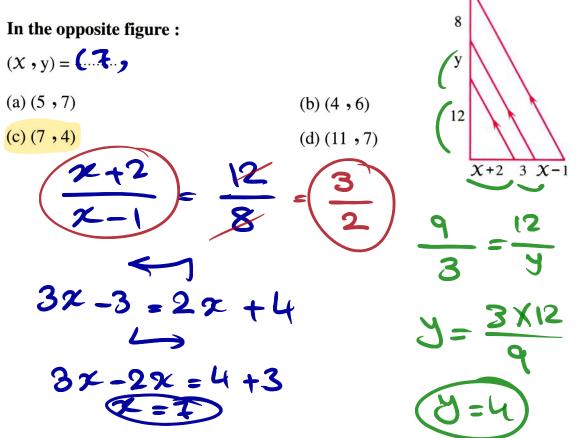
1x + 2x + 2x + 2x = 35 $7x = 35 \implies x = \frac{35}{7} = 5$





Choose the correct answer

21



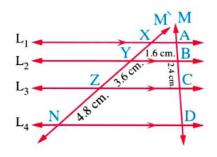
22 Together we can make math easier

Talis' theorem

Answer the following questions

- 1 In the opposite figure :
 - $L_1 // L_2 // L_3 // L_4$,
 - M , \dot{M} are two transversals.
 - If AB = 1.6 cm., BC = 2.4 cm.,
 - YZ = 3.6 cm. , ZN = 4.8 cm.

Calculate the length of each of : \overline{XY} and \overline{CD}



$$= \frac{L_{1}}{L_{2}} \frac{L_{4}}{L_{3}} \frac{L_{4}}{L_{4}}$$
8 M, M are +w o frans.

$$= \frac{AB}{X3} = \frac{BC}{3Z} = \frac{CD}{ZN}$$

$$= \frac{1.6}{X3} = \frac{2.4}{3.6} = \frac{CD}{4.8}$$

$$XY = \frac{1.6X3.6}{2.4} = 2.4$$

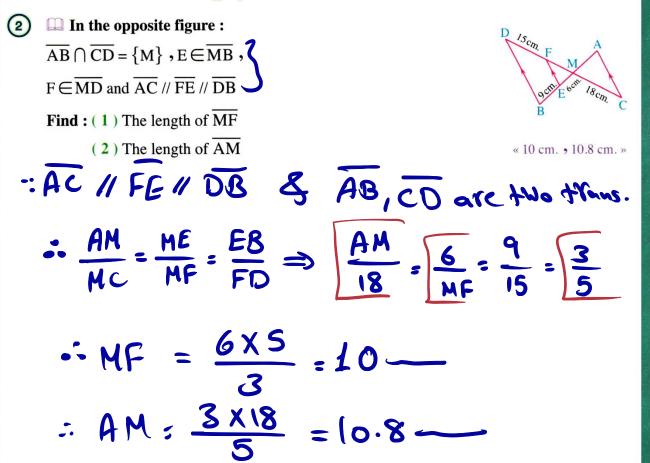
$$CD = \frac{2.4 \times 4.8}{3.6} = 3.2$$

$$Mr. Michael Gamil 0122 73 75 987$$



Answer the following questions

23





Answer the following questions

24

3	In the opposite figure :	Stor B A S
	$\overline{AB} / / \overline{CD} / / \overline{EF} / / \overline{XY} / / \overline{ZK}$,	
	AC = 2 cm., BD = 2.5 cm.,	E E E E
	FY = 4.5 cm., $FK = 7.5 cm.$, $CZ = 12 cm.$	X X
	Find the length of each of : \overline{EX} , \overline{XZ} , \overline{CE} and \overline{DF}	K Z
•:	AB//CD//EF // Zy //ZK	3.6 cm. , 2.4 cm. , 6 cm. , 7.5 cm. »
	- CP # 25 # 2K	AC CE EX XZ
	& AZ, BIT are two thins	BD DF FJ YZ
	AC BD = 2 2.5	2 CE EX XZ
	$\overline{CZ} = \overline{DK} = \overline{12} = \overline{DK}$	2.5 7.5 4.5 3
		EV 4.5K2 26
	DK= 2.5×12 = 15~	2.5 = 3.0
	2	XZ 2X3 -9.4-
	DF = 15 - [3 + 4.5] = 7.5 -	2.5
••		CE = 2x7.5=6
		2.5



Answer the following questions

(4) In the opposite figure :

• $L_1 // L_2 // L_3 // L_4$ and M , \tilde{M} are two transversals. If $\frac{AB}{BC} = \frac{1}{2}$, $BC = \frac{4}{5}$ CD and XN = 16.5 cm.

Find the length of each of : \overline{XY} , \overline{YZ} and \overline{ZN}

-: AB:BC:CD i:2 u:5 h:8:10=2 a:4:5 $\therefore xy:3Z:ZN=2:4:5$ xy:yZ:ZN:XN 2:4:5:11?:72:72:16.5

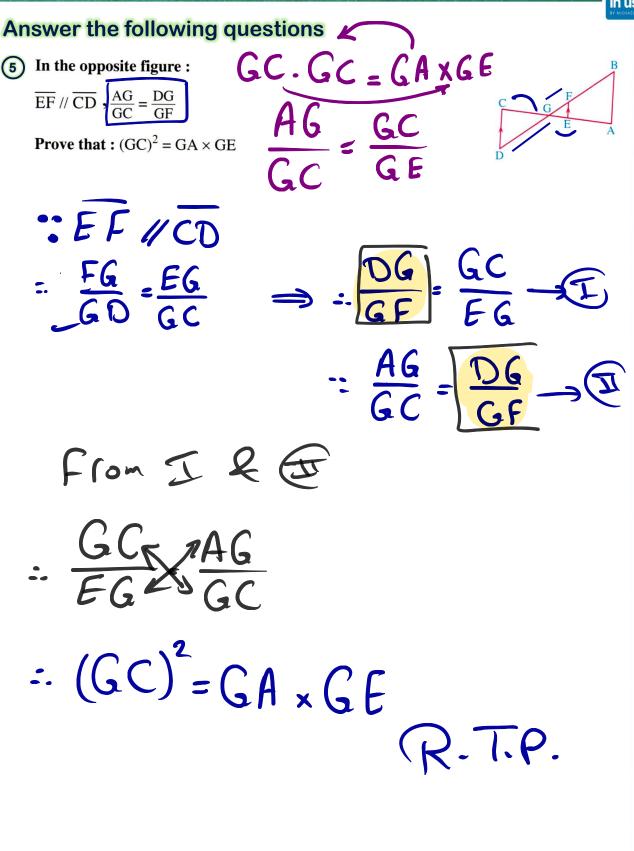
M D S «3 cm. , 6 cm.,

 $x_{J}=2m, Y_{Z}=um, Z_{I}=5m$ $x_{N}=x_{J}+y_{Z}+Z_{R}$ 2m+um+5m=16.5 11m=16.5 $z_{M}=1.5$ $x_{J}=2(1.5)=3-1$ $Y_{Z}=4(1.5)=6-1$ $Z_{R}=5(1.5)=7.5-1$

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26





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