

تم تحميل هذا الملف من موقع المناهج الإماراتية



الملف حل أسئلة الاختبار التجريبي ريفيل

موقع المناهج ⇨ المناهج الإماراتية ⇨ الصف الثامن ⇨ رياضيات ⇨ الفصل الثالث

روابط مواقع التواصل الاجتماعي بحسب الصف الثامن



روابط مواد الصف الثامن على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

[التربية الاسلامية](#)

المزيد من الملفات بحسب الصف الثامن والمادة رياضيات في الفصل الثالث

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رياضيات 2023

الإختبار التجريبي 8 ريفيل 2023

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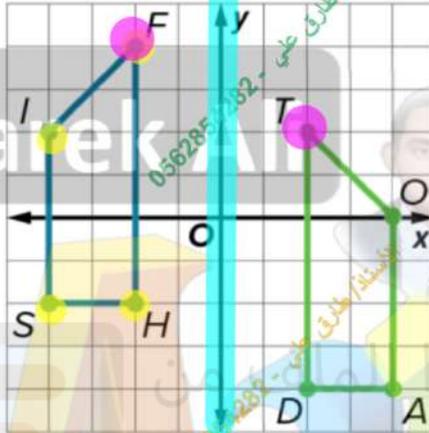
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pre

image

1) Trapezoid FISH is congruent to trapezoid TOAD. Determine which sequence of transformations maps trapezoid FISH onto trapezoid TOAD.



- | | |
|----------|---|
| A | Reflect across the y-axis and then translate it 2 units down. |
| B | Reflect across the y-axis and then translate it 2 units up. |
| C | Reflect across the x-axis and then translate it 2 units down. |
| D | Reflect across the x-axis and then translate it 2 units up. |



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2) What transformations could be used to create the graphic if Figure A is the preimage and Figure B is the image?



A	Reflection followed by a translation.
B	Dilation and then translation.
C	Reflection.
D	Dilation.



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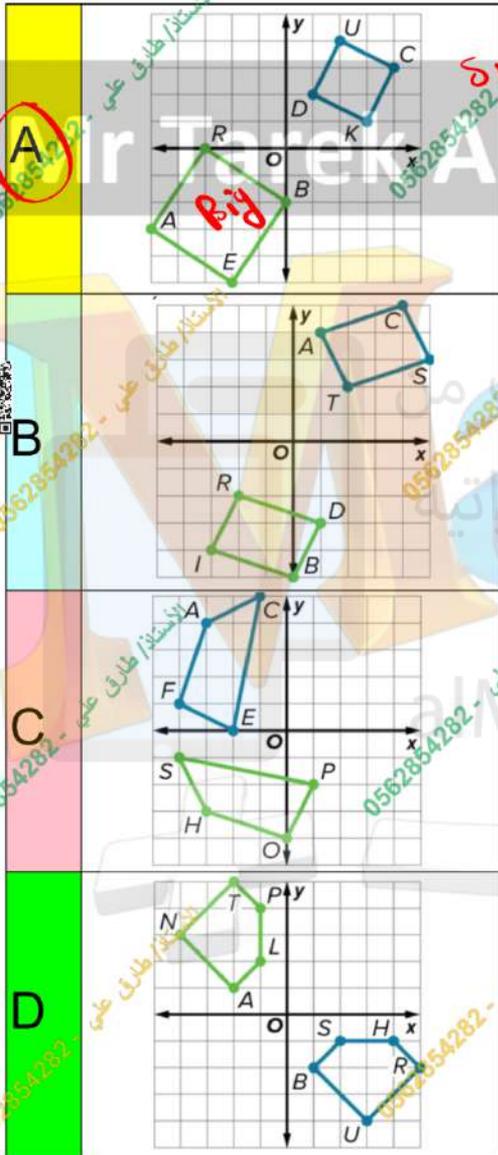
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3) Chose the pair of figures that are not congruent.

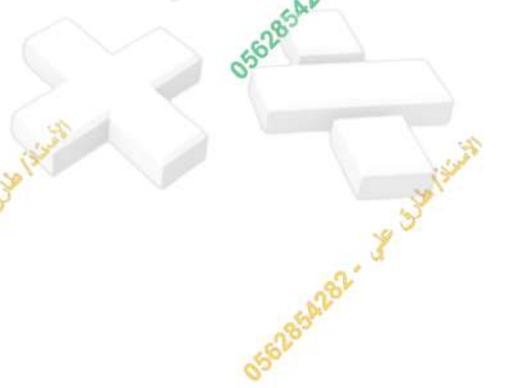


Smart

Big



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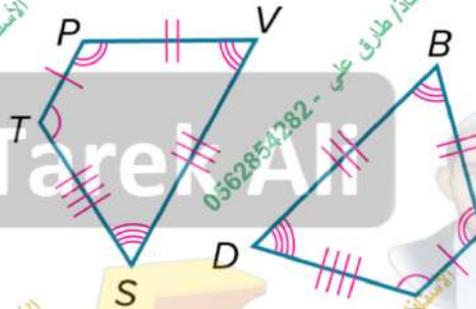
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4) Which congruence statement describes the trapezoids shown?



A	$TPVS \cong FHBD$
B	$TPVS \cong FDBH$
C	$TPVS \cong HFDB$
D	$TPVS \cong DBHF$



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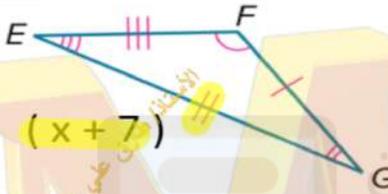
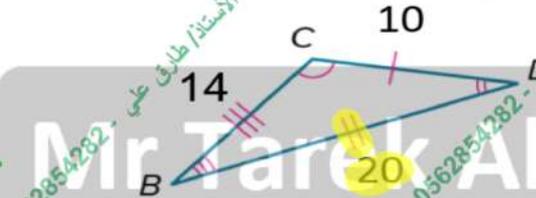
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جميع الجوابك هنا



5) In the figure, $\triangle CDB \cong \triangle FGE$. Find the value of x .



$$\begin{array}{r} x + 7 = 20 \\ - 7 \quad - 7 \\ \hline \end{array}$$

$$\boxed{x = 13}$$

A	$x = 7$
B	$x = 13$
C	$x = 20$
D	$x = 27$



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6) Chose the pair of figures that are similar.

A	
B	
C	
D	

Handwritten calculations:

$$\frac{15}{20} = \frac{3}{4} \quad | \quad \frac{9}{12} = \frac{3}{4}$$



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7) Sara creates a poster of the album cover of her favorite band. She enlarges the album cover by a scale factor of 2 and then enlarges the second image by a scale factor of 3. The album cover is 8 centimeters by 10 centimeters. What are the dimensions of the poster? .

$$8 \times 2 = 16$$

$$10 \times 2 = 20$$

$$16 \times 3 = 48$$

$$20 \times 3 = 60$$

A	16 cm by 20 cm
B	48 cm by 60 cm
C	20 cm by 30 cm
D	40 cm by 80 cm



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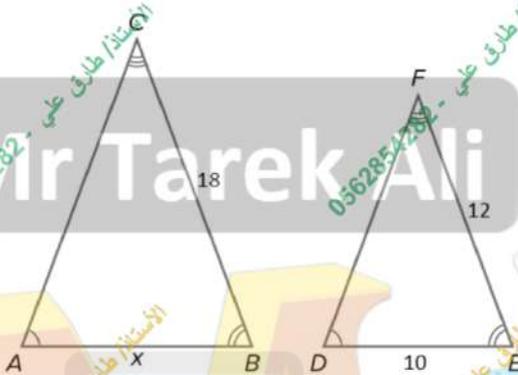
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8) The two triangles are similar. Find the missing side measure.



$$\frac{x}{10} = \frac{18}{12}$$

$$x = 15$$

A	$x = 21.6$
B	$x = 15$
C	$x = 10$
D	$x = 20$



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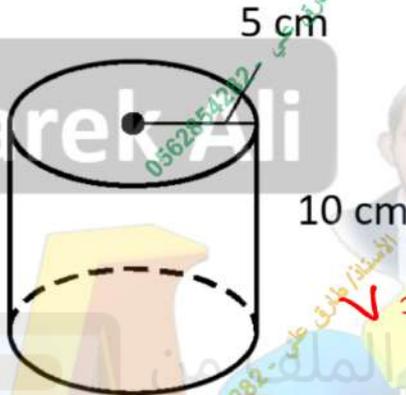
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جميع الروابط هنا



9) Find the volume of the cylinder.



$$V = \pi r^2 h$$

$$V = \pi (5)^2 (10)$$

$$= 250\pi$$

A	$25 \pi \text{ cm}^3$
B	$50 \pi \text{ cm}^3$
C	$250 \pi \text{ cm}^3$
D	$15 \pi \text{ cm}^3$



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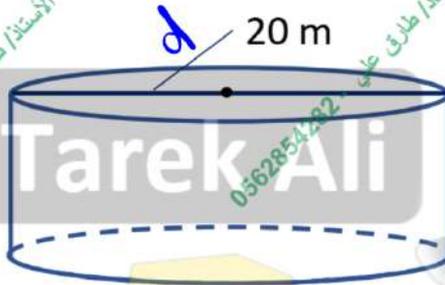
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جميع الروابط هنا



10) Find the volume of the cylinder.



$$r = \frac{d}{2}$$

$$r = \frac{20}{2}$$

$$r = 10$$

$$V = \pi r^2 h = \pi (10)^2 (6)$$

$$= 600\pi$$

A	$100 \pi \text{ m}^3$
B	$60 \pi \text{ m}^3$
C	$360 \pi \text{ m}^3$
D	$600 \pi \text{ m}^3$



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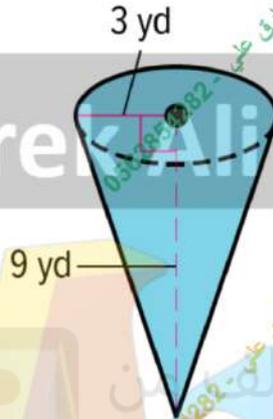
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جميع الروابط هنا



11) Find the volume of the cone.



$$\begin{aligned}
 V &= \frac{1}{3} \pi r^2 h \\
 &= \frac{1}{3} \pi (3)^2 (9) \\
 &= 27\pi
 \end{aligned}$$

A	$3 \pi \text{ yd}^3$
B	$12 \pi \text{ yd}^3$
C	$81 \pi \text{ yd}^3$
D	$27 \pi \text{ yd}^3$



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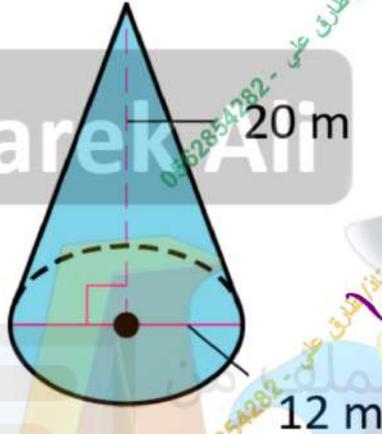
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جميع الروبوك هنا



12) Find the volume of the cone.



$$r = \frac{d}{2} = \frac{12}{2}$$

$$r = 6$$

$$V = \frac{1}{3} \pi r^2 h$$

$$V = \frac{1}{3} \pi (6)^2 (20)$$

$$= 240 \pi$$

A	$240 \pi \text{ m}^3$
B	$2880 \pi \text{ m}^3$
C	$400 \pi \text{ m}^3$
D	$144 \pi \text{ m}^3$



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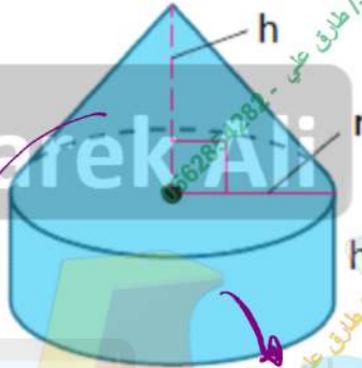
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13) Choose the formula that represent the volume of the shown solid.



$$\frac{1}{3}\pi r^2 h + \pi r^2 h$$

A	$\frac{4}{3}\pi r^2 h - \pi r^2 h$
B	$\frac{1}{3}\pi r^2 h + \pi r^2 h$
C	$\frac{1}{3}\pi r^2 h - \pi r^2 h$
D	$\frac{4}{3}\pi r^2 h + \pi r^2 h$



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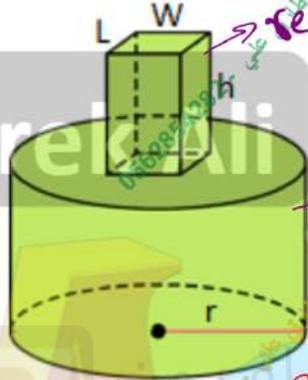
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14) Choose the formula that represent the volume of the shown solid.



rectangle prism

cylinder

$$L \cdot W \cdot h + \pi r^2 h$$

A	$L + W + h + \pi r^2 h$
B	$Lwh - \pi r^2 h$
C	$Lwh + \pi r^3 h$
D	$Lwh + \pi r^2 h$



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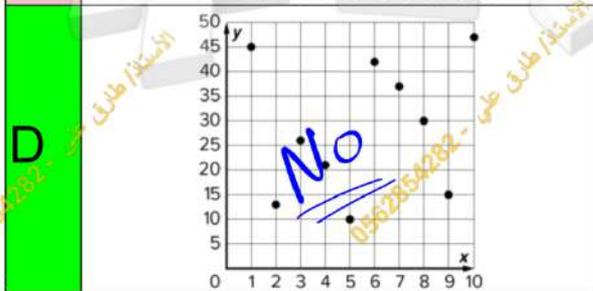
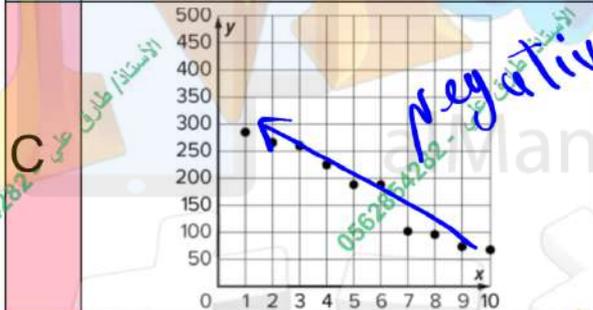
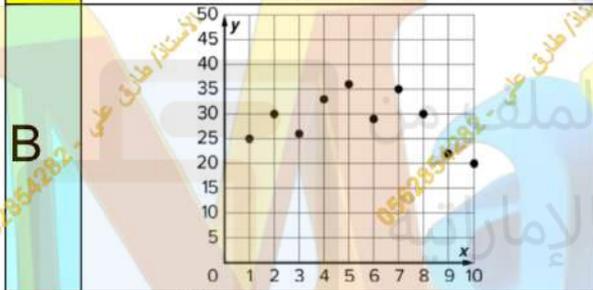
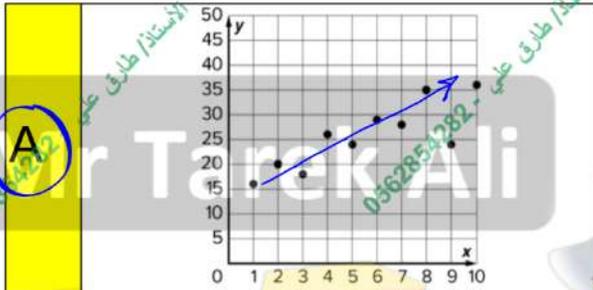
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جميع الروابط هنا



15) Choose the scatter plot of the data which shows a **linear positive association**.



+

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negative

No



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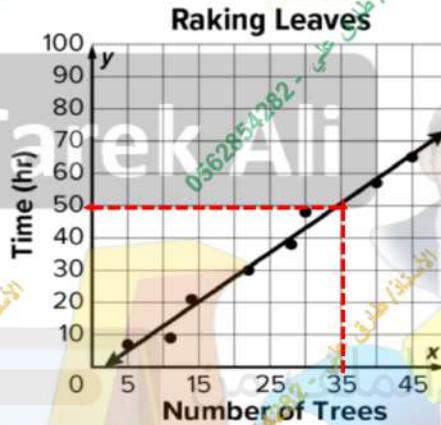


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16) Use the line of fit to make a conjecture about the number of trees on a property that takes a person 35 hours to rake.



- | | |
|---|----------|
| A | 50 trees |
| B | 45 trees |
| C | 15 trees |
| D | 25 trees |



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جميع الجوابات هنا



The scatter plot shows. Write an equation for the line of fit.



$$y = mx + b$$

$(1, 40)$ $(2, 35)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{40 - 35}{1 - 2}$$

$$m = -5, \quad b = 45$$

$$y = -5x + 45$$

A	$y = -5x + 45$
B	$\alpha y = 5x + 45$
C	$\alpha y = 5x$
D	$y = -\frac{1}{5}x + 45$



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The scatter plot shows. Write an equation for the line of fit.



Right $m \oplus$

$b = 3$

$(2, 8)$ $(6, 18)$

$$m = \frac{18 - 8}{6 - 2} = \underline{\underline{2.5}}$$

$$y = mx + b$$

$$y = 2.5x + 3$$

A	$y = -2.5x + 3$
B	$y = 2.5x + 3$
C	$y = 2.5x$
D	$y = -2.5x$



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جميع الروبكات هنا



Find the volume of the sphere.



$$V = \frac{4}{3} \pi r^3$$

$$r = \frac{20}{2} = 10$$

$$V = \frac{4}{3} \pi (10)^3 = \frac{4000\pi}{3}$$

A	$\frac{4000}{3} \pi \text{ yd}^3$
B	$\frac{1000}{3} \pi \text{ yd}^3$
C	$\frac{8000}{3} \pi \text{ yd}^3$
D	$\frac{400}{3} \pi \text{ yd}^3$



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فقط كرة

Find the volume of the hemisphere.

$\frac{3}{2}$ cm



$$V = \frac{2}{3} \pi r^3$$

$$V = \frac{2}{3} \pi \left(\frac{3}{2}\right)^3$$

$$= \frac{9}{8} \pi$$

A	$\frac{9}{2} \pi \text{ cm}^3$
B	$\frac{81}{16} \pi \text{ cm}^3$
C	$\frac{9}{4} \pi \text{ cm}^3$
D	$\frac{27}{8} \pi \text{ cm}^3$



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The volume of a **cone** is $50\pi \text{ cm}^3$ and the radius is 5 cm . Find the height.

$V = 50\pi$

$r = 5$

$r = 5$

A	2 cm
B	5 cm
C	10 cm
D	6 cm

$V = \frac{1}{3} \pi r^2 h$

$50\pi = \frac{1}{3} \pi (5)^2 h$

$h = 6$

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كرة

The volume of sphere is $36\pi \text{ cm}^3$. Find r.

$$V = 36\pi$$

$$V = \frac{4}{3} \pi r^3$$

$$36\pi = \frac{4}{3} \pi r^3$$

A	27 cm
B	$3\pi \text{ cm}$
C	$27\pi \text{ cm}$
D	3 cm



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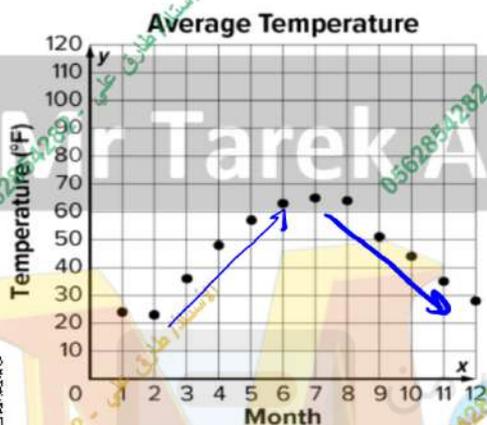


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The scatter plot shows the relationship between the average temperature in a town and the month that the temperature reading is taken.



- A** The temperature increases and then decreases as the months progress
- B** There is a linear association.
- C** There are no clusters and one outliers.
- D** The temperature increases as the months progress.



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The table shows the results of a survey that asked customers of an ice cream store. Find the relative frequencies by row of customers who likes both cone and chocolate.

	vanilla	chocolate	Total
Cup	8	6	14
Cone	4	10	14
Total	12	16	28

A	$\frac{5}{14}$
B	$\frac{5}{7}$
C	$\frac{3}{7}$
D	$\frac{5}{8}$

$$\frac{10}{14} = \frac{5}{7}$$



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Two basketball teams, the Dragons and the Eagles, play a game. Find the value of x in the two-way table summarizing the data.

	Points	No Points	Total
Dragons	20	x	30
Eagles	40	30	70
Total	60	40	100

- A** 10
- B** 50
- C** 70
- D** 20

$$30 - 20 = 10$$



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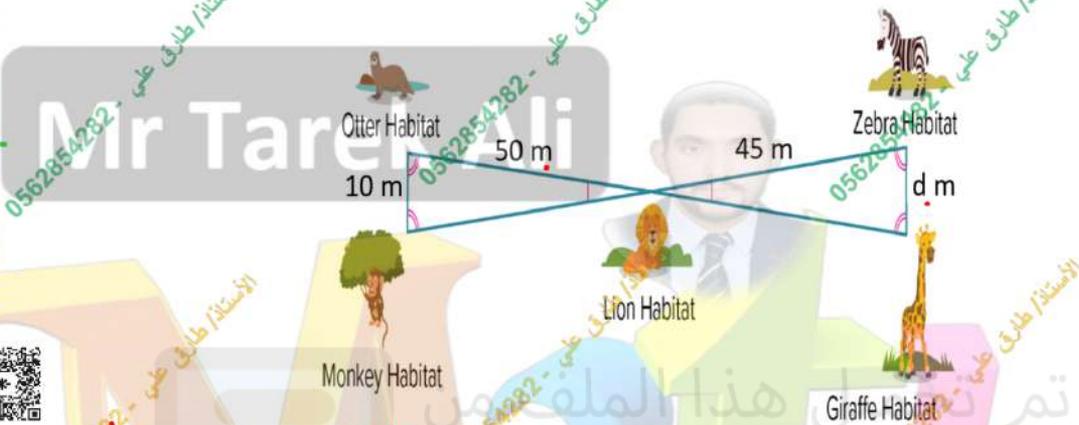
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جميع الحقوق لهذا



3) In the figure, the triangles are similar. What is the distance d from the zebra habitat to the giraffe habitat?



$$\frac{d}{10} = \frac{45}{50}$$

$$50d = 45 \times 10$$

$$d = \frac{45 \times 10}{50}$$

$$d = 9 \text{ m}$$