

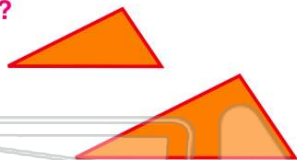


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 In order to be **similar**, two figures must have the same **size and shape**.

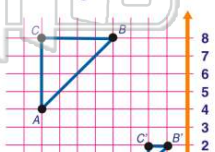
True or false?

- A true  
B false



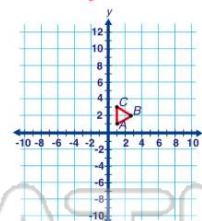
- 3 What **scale factor** is used to dilate triangle **ABC** to triangle **A'B'C'**?

- A .25  
B .5  
C 2  
D 4



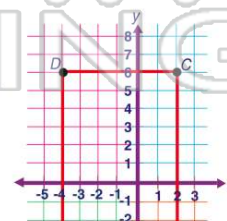
- 2 What are the coordinates of **B** when the figure shown is **dilated by a scale factor of 4**?

- A (4, 4)  
B (4, 12)  
C (8, 12)  
D (12, 8)



- 4 The figure shown is dilated by a **scale factor of .5**. What is the coordinate of **D**?

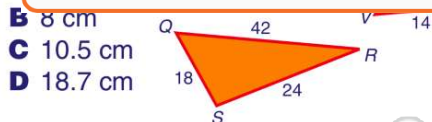
- A (-3, 1)  
B (-3, 2)



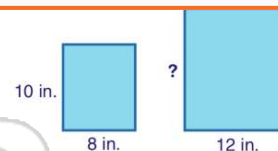
## PREVIEW

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- 7

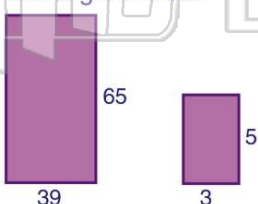


- A 15 in.  
B 27 in.  
C 36 in.  
D 54 in.



- 9 For the rectangles shown, what is the **ratio** of the larger rectangle's area to the smaller rectangle's area?

- A  $\frac{39}{5}$   
B  $\frac{3}{39}$   
C 13  
D 169



- 10 An architect has blueprints for a house. The scale is  $\frac{1}{2}$  in. = 2.5 ft. If the blueprint measures the length of the house to be **12 in.**, what is the **actual length** of the house?

- A 2.4 ft      C 60 ft  
B 30 ft      D 120 ft

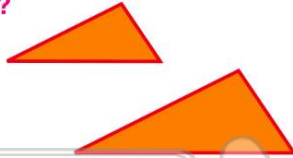


## ANSWER KEY

In order to be **similar**, two figures must have the same **size and shape**.

**True or false?**

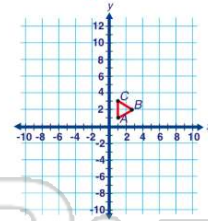
- A** true
- B** false



(b)

What are the coordinates of **B** when the figure shown is **dilated by a scale factor of 4**?

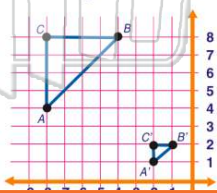
- A** (4, 4)
- B** (4, 12)
- C** (8, 12)
- D** (12, 8)



(d)

What **scale factor** is used to dilate triangle **ABC** to triangle **A'B'C'**?

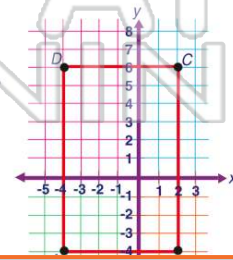
- A** .25
- B** .5
- C** 2
- D** 4



(a)

The figure shown is dilated by a **scale factor of .5**. What is the coordinate of **D**?

- A** (-3, 1)
- B** (-3, 2)
- C** (-2, 3)



(c)



## PREVIEW

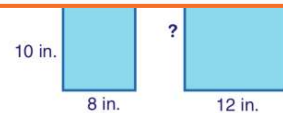
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- A** 10.5 cm
- B** 18.7 cm
- C** 18
- D** 24



(d)

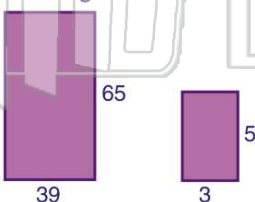
- A** 15 in.
- B** 27 in.
- C** 36 in.
- D** 54 in.



(c)

For the rectangles shown, what is the **ratio** of the larger rectangle's area to the smaller rectangle's area?

- A**  $\frac{39}{5}$
- B**  $\frac{3}{39}$
- C** 13
- D** 169



An architect has blueprints for a house. The scale is  $\frac{1}{2}$  in. = 2.5 ft. If the blueprint measures the length of the house to be **12 in.**, what is the **actual length** of the house?

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