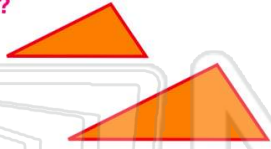Name_____ Class_____ Date_____

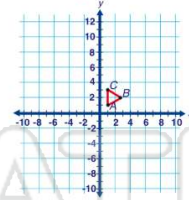**1** In order to be **similar**, two figures must have the same **size and shape**.
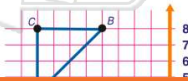
True or false?

A true
B false

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)

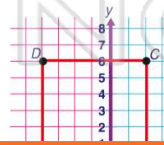**3** What **scale factor** is used to dilate triangle *ABC* to triangle *A'B'C'*?

A .25
B .5

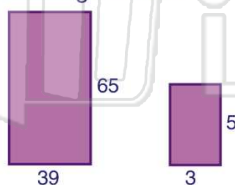**4** The figure shown is dilated by a **scale factor of .5**. What is the coordinate of *D'*?

5

7

C 10.5 cm
D 18.7 cm

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

10 in.   8 in.   12 in.

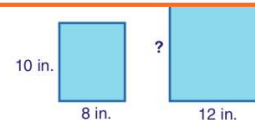**9** For the rectangles shown, what is the **ratio** of the larger rectangle's area to the smaller rectangle's area?

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

65   5
39   3

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
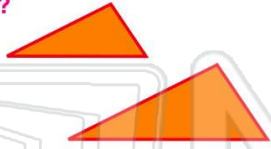
Name_____ Class_____ Date_____

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

True or false?

A true
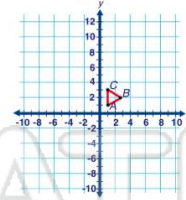**B** false

Ⓑ

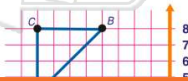**2** What are the coordinates of **B** when the figure shown is **dilated by a scale factor of 4**?

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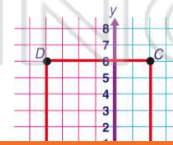**C** (8, 12)
D (12, 8)

Ⓓ

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

A .25
B .5

Ⓐ

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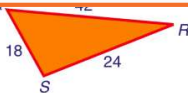
Ⓒ

5

Ⓑ

7

C 10.5 cm
D 18.7 cm

18   24

Ⓓ

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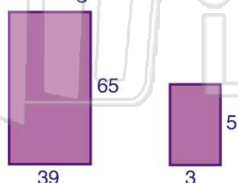**D** 54 in.

10 in.   ?

8 in.   12 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

65   5

39   3

Ⓓ

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

Ⓒ