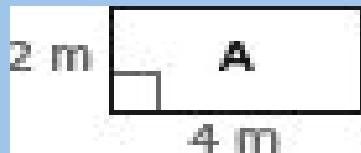


Stretching and Shrinking Review

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Question 1



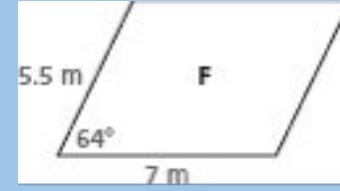
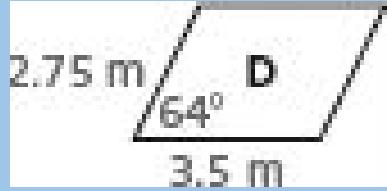
A. Find the ratio of adjacent sides (short:long) for each parallelogram.

B. Which ones have equivalent ratios? _____

C. Which shapes are similar? _____

D. What is their scale factor from small to large? _____

Question 2



- A. Find the ratio of adjacent sides (short:long) for each parallelogram.

- B. Which ones have equivalent ratios? _____

- C. Which shapes are similar? _____

- D. What is their scale factor from small to large? _____

Question 3

- A. What changes when you enlarge or reduce a figure?

- B. What does not change when you enlarge or reduce a figure?

Question 4

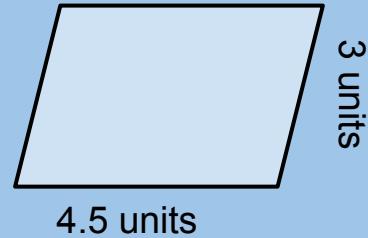
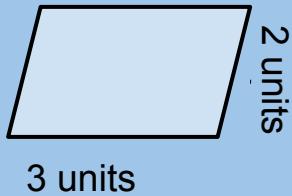
What happens to Mug (x,y) when you...

- A. change it to $(4x, 4y)$? _____
- B. change it to $(2x, y)$? _____
- C. change it to $(x + 2, y)$? _____
- D. change it to $(x + 2, y - 1)$? _____

- E. Which of the above (x,y) rules would produce similar figures?

Question 5

Find the scale factor for the following similar shapes

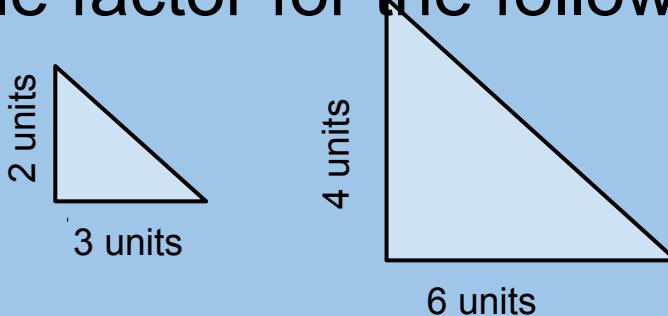


A--go from the small shape to the larger one = _____

B--go from the larger shape to the smaller one =

Question 6

Find the scale factor for the following similar shapes

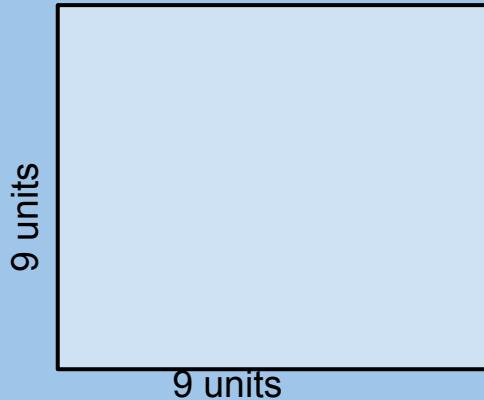
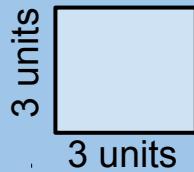


A--go from the small shape to the larger one = _____

B--go from the larger shape to the smaller one = _____

Question 7

Find the scale factor for the following similar shapes

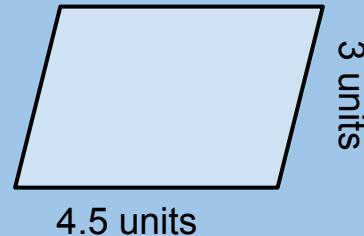
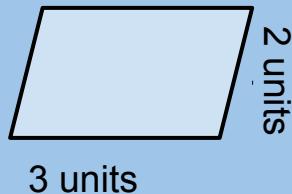


A--go from the small shape to the larger one = _____

B--go from the larger shape to the smaller one = _____

Question 8

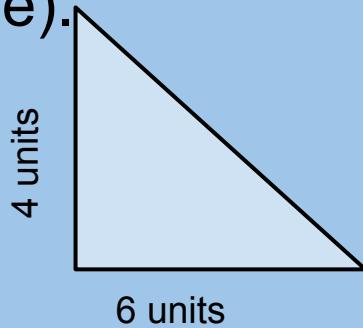
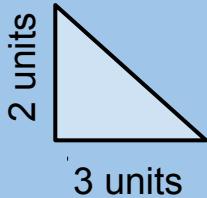
- A. Find the ratio of adjacent sides for each polygon pair above (short side to long side).



- B. What do you notice about the ratios? Are these similar figures? How do you know?

Question 9

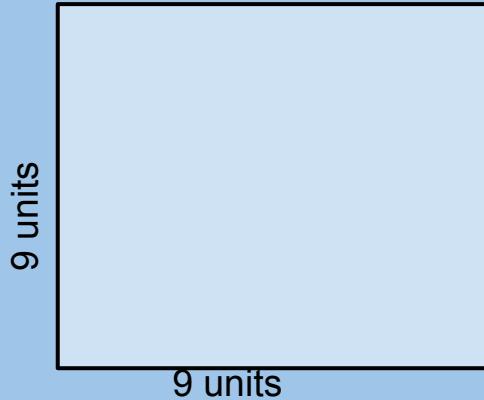
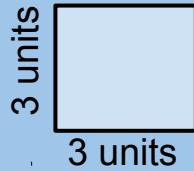
- A. Find the ratio of adjacent sides for each polygon pair above (short side to long side).



- B. What do you notice about the ratios? Are these similar figures? How do you know?

Question 10

- A. Find the ratio of adjacent sides for each polygon pair above (base to height).



- B. What do you notice about the ratios? Are these similar figures? How do you know?

Question 11

Grace uses the shadow method to estimate the height of a flagpole. She finds that a 4-foot stick casts a 3 foot shadow. At the same time, she finds that the flagpole casts a 15 foot shadow.

- A. Sketch a diagram.

- B. What is the height of the flagpole?

Question 12

- A. Draw each triangle separately (there are 3).
- B. Label all the side lengths that you can.
- C. Find the scale factor from the smallest to medium AND smallest to largest.
- D. Find the perimeters for each triangle

