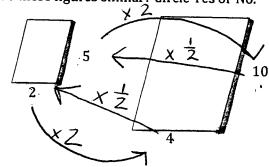
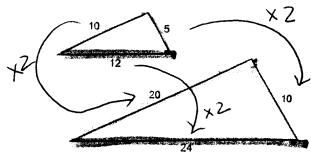
Name
Similar Shapes and Scale Factor
Objectives SWBAT identify similar figures. SWBAT solve for and apply scale factor to similar figures.
Silent Launch  1. Are these two shapes congruent (or the same)?
2 cm 2 Jedicie.
How do you know?
2. Are these two rectangles congruent?  1 in 3 in  Rotation  Sometric of Somet
Class Notes Similar Figures have  • Same Shape  • Corresponding 4s are the same  • Sides are in proportion  (Corresponding)  Scale Factor is
# you multiply the Sides of a shape (figure) by to either enlarge it or reduce it

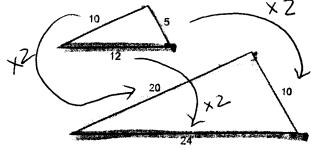
} \*.

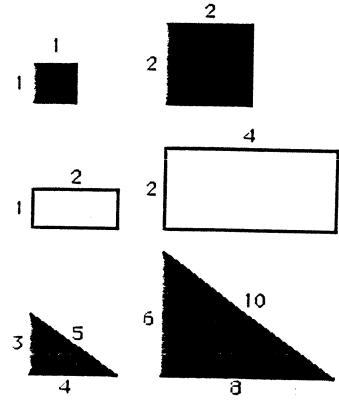
## **Practice**

Are these figures similar? Circle Yes or No.









Yes No





Yes No 
$$\frac{5}{10} = \frac{12}{24} = \frac{10}{20}$$
 $\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$ 

$$\frac{2}{3} = \frac{4}{8}$$

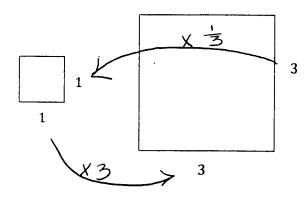
$$2(8) = 3(4)$$

$$16 \neq 12$$

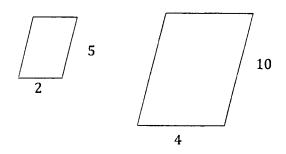
$$\text{Yes} \qquad \text{No}$$

$$\frac{3}{2} = \frac{8}{4}$$

Find the Scale Factor between the pairs of similar shapes

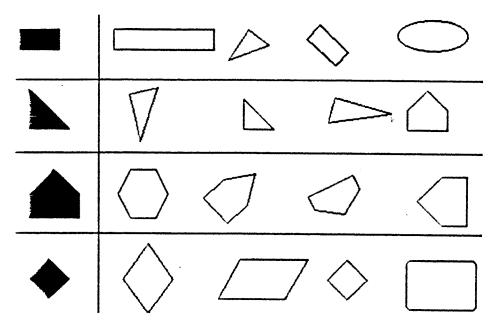


Little to Big Scale Factor = 3

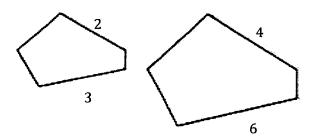


Scale Factor \_\_\_\_\_

Independent Work
For each shape on the left, circle the shape(s) on the right that are similar.

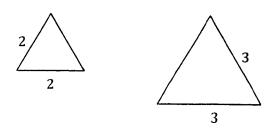


For each set of shapes, determine if they are similar and solve for the scale factor if applicable.



Similar? \_\_\_\_\_

Scale Factor \_\_



Similar?

Scale Factor \_\_\_\_\_

4		•	
	 ·	 	

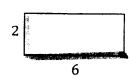
2

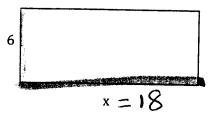
12

Similar?

Scale Factor \_\_\_\_\_

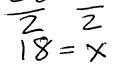
Find the missing side, x.





Scale Factor = 3

x = \_\_\_\_



5

Scale Factor = 2

x = \_\_\_\_

20

50 x

Scale Factor = \_\_\_\_\_ x = \_\_\_\_