**Similar Shapes GREEN**

All the shapes below are mathematically similar. Use ratio to calculate the missing lengths for each pair of shapes.

1)

 x = \_\_\_\_\_\_\_\_\_

2)

 x = \_\_\_\_\_\_\_\_\_

3)

 x = \_\_\_\_\_\_\_\_\_

4)

 x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_

5) 6)



 x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

7) 8)

x = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_

9) 10)

x = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_

**Similar Shapes AMBER**

The sides used to calculate the ratio are circled.

All the shapes below are mathematically similar. Use ratio to calculate the missing lengths for each pair of shapes.

1)

 x = \_\_\_\_\_\_\_\_\_

2)

 x = \_\_\_\_\_\_\_\_\_

3)

 x = \_\_\_\_\_\_\_\_\_



4)

 x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_





5) 6)



 x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

7) 8)



x = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_

9) 10)



x = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_

**Similar Shapes RED**

The sides used to calculate the ratio are circled.

All the shapes below are mathematically similar. Use ratio to calculate the missing lengths for each pair of shapes.

4 : 5 = 1 : \_\_\_\_\_

6 x \_\_\_\_\_ = \_\_\_\_\_

1)

 x = \_\_\_\_\_\_\_\_\_

8 : 10 = 1 : \_\_\_\_\_

5 x \_\_\_\_\_ = \_\_\_\_\_

2)

 x = \_\_\_\_\_\_\_\_\_

3)

6 : \_\_\_\_ = 1 : \_\_\_\_\_

 x = \_\_\_\_\_\_\_\_\_



4)

 x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_





5) 6)



 x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

7) 8)



x = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_

9) 10)



x = \_\_\_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_