

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## SIMILAR TRIANGLES: Worksheet 2

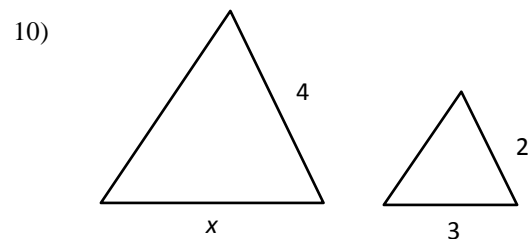
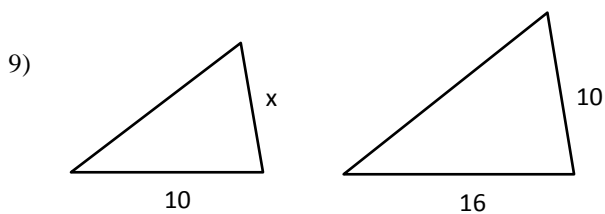
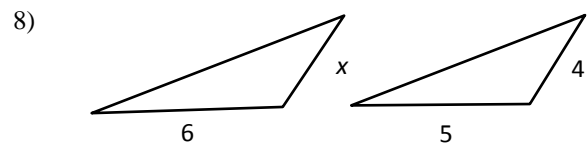
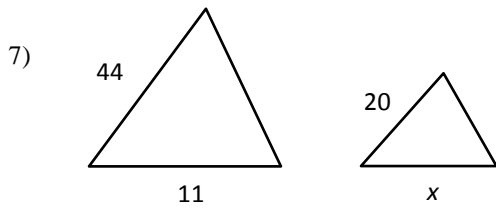
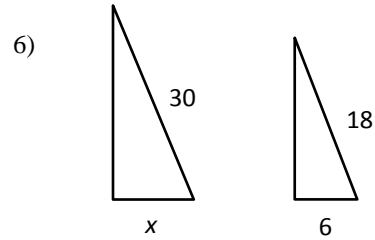
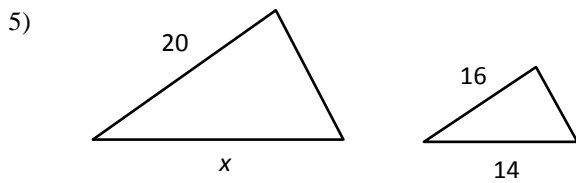
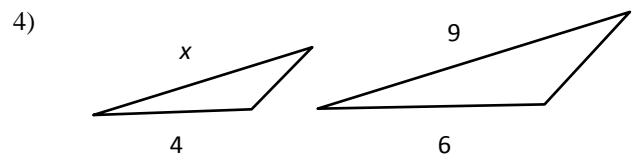
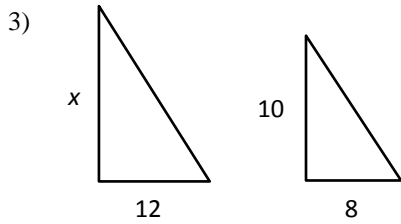
Solve the following proportions for  $n$ .

1)  $\frac{10}{n} = \frac{125}{25}$

2)  $\frac{2.25}{4} = \frac{n}{18}$

Find  $x$  in the following pairs of similar triangles. Triangles are not to scale.

**Proportions may vary to solve for answer.**



**KEY**  
SIMILAR TRIANGLES: Worksheet 2

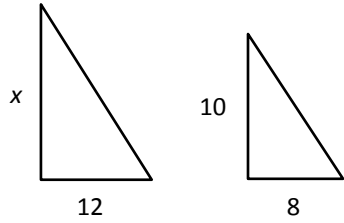
Solve the following proportions for  $n$ .

$$2) \quad \frac{10}{n} = \frac{125}{25} \quad n = (10 \cdot 25) \div 125 = 2$$

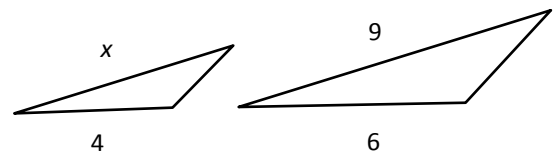
$$2) \quad \frac{2.25}{4} = \frac{n}{18} \quad n = (2.25 \cdot 18) \div 4 = 10.125$$

Find  $x$  in the following pairs of similar triangles. Triangles are not to scale.

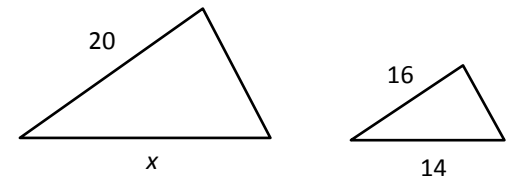
**Proportions may vary to solve for answer.**

3) 

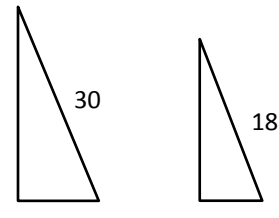
$$\frac{x}{10} = \frac{12}{8} \quad x = (10 \cdot 12) \div 8 = 15$$

4) 

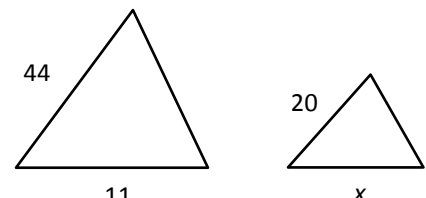
$$\frac{x}{9} = \frac{4}{6} \quad x = (9 \cdot 4) \div 6 = 6$$

5) 

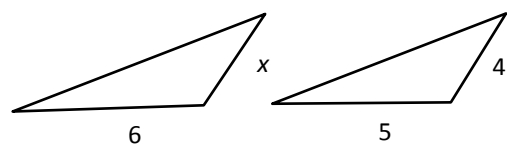
$$\frac{20}{16} = \frac{x}{14} \quad x = (20 \cdot 14) \div 16 = 17.5$$

6) 

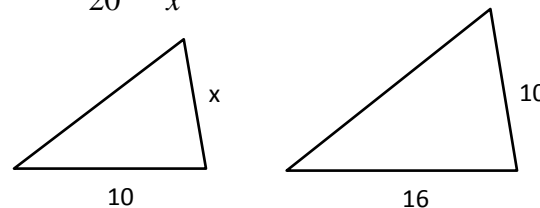
$$\frac{30}{18} = \frac{x}{6} \quad x = (30 \cdot 6) \div 18 = 10$$

7) 

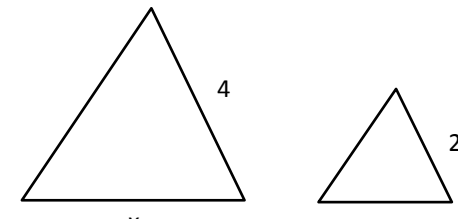
$$\frac{44}{20} = \frac{11}{x} \quad x = (20 \cdot 11) \div 44 = 5$$

8) 

$$\frac{x}{4} = \frac{6}{5} \quad x = (4 \cdot 6) \div 5 = 4.8$$

9) 

$$\frac{x}{10} = \frac{10}{16} \quad x = (10 \cdot 10) \div 16 = 6.25$$

10) 

$$\frac{4}{2} = \frac{x}{3} \quad x = (4 \cdot 3) \div 2 = 6$$