Name: _____   Period: _____

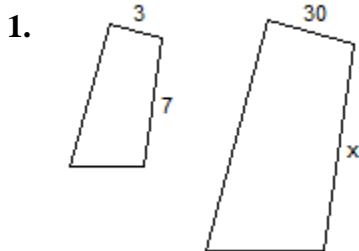**There are TWO proportions that are set up INCORRECTLY. Which ones are set up incorrectly?**
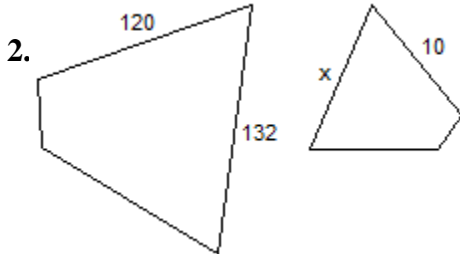
1.

A. $\dfrac{3}{30} = \dfrac{7}{x}$ B. $\dfrac{3}{x} = \dfrac{30}{7}$

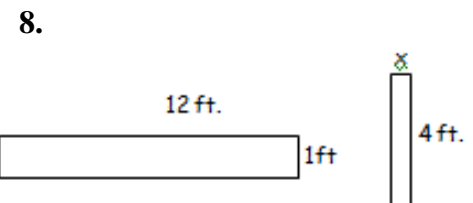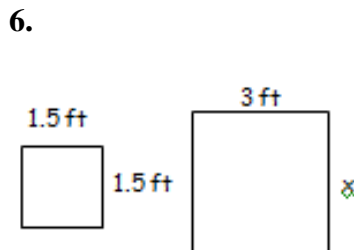C. $\dfrac{x}{30} = \dfrac{3}{7}$ D. $\dfrac{3}{7} = \dfrac{30}{x}$
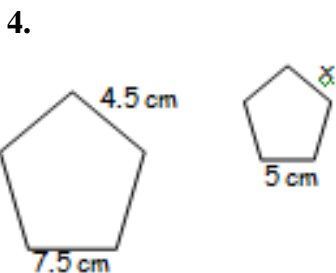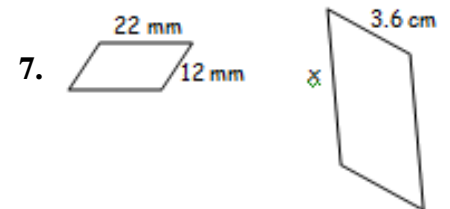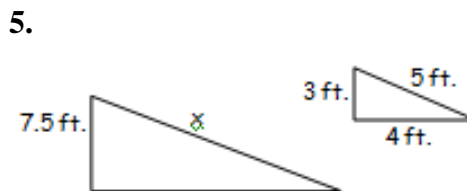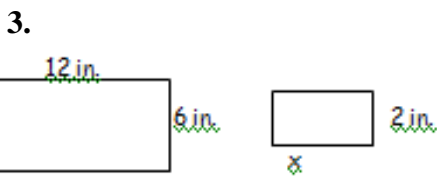
2.

A. $\dfrac{120}{x} = \dfrac{132}{10}$ B. $\dfrac{120}{132} = \dfrac{10}{x}$

C. $\dfrac{132}{x} = \dfrac{120}{10}$ D. $\dfrac{x}{10} = \dfrac{120}{132}$

Find the length of the missing side of each similar shape. SHOW YOUR WORK.

3.

12 in.

6 in.   2 in.

x

5.

3 ft.   5 ft.
7.5 ft.   x
4 ft.

7.

22 mm   3.6 cm

12 mm   x

6.

3 ft
1.5 ft
1.5 ft   x

4.

4.5 cm

5 cm

x

7.5 cm

8.

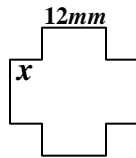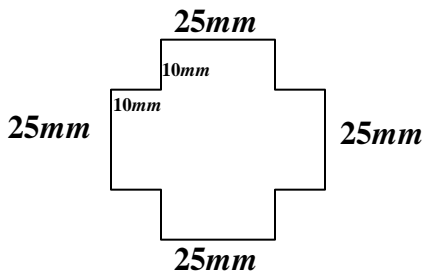12 ft.   x

1 ft   4 ft.

Write the problem as a proportion and solve the ratio for the missing side. Round your answer to the nearest tenth.
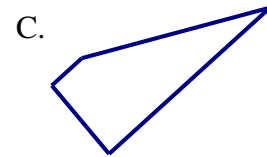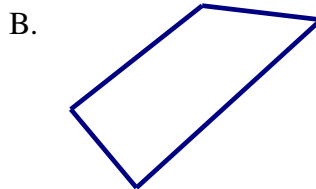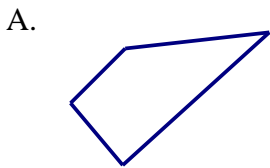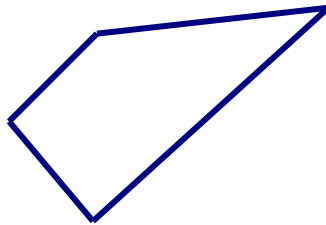
9. Kelli is standing outside of the school. A nearby tree is casting a shadow 12.5 feet long and Kelli's shadow is 4 feet. If Kelli is 5.5 feet tall, how tall is the tree?

5.5 ft

4 ft   12.5 ft
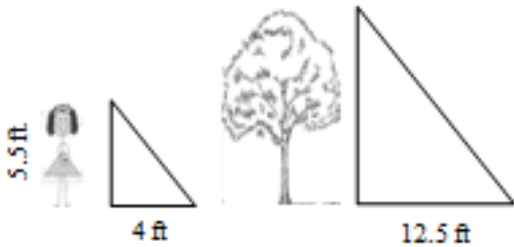
10. Blake goes to the Red Cross to donate blood. The Red Cross emblem on a sign has the following measurements. Blake is given a Red Cross pin for donating. The pin is 12 mm across. Label the missing side lengths.

25mm

10mm

10mm

25mm   25mm

25mm

12mm

x

11. Identify a shape similar to:

A.   B.   C.

12. Identify a shape similar to:

A.   B.   C.