Algebra I A - Mr. Allen-Black Name_____ ID: 1

Solving Proportion Problems

Date_____ Period____

Solve each proportion. Give your answers as a decimal rounded to the nearest hundredth. (2-decimal places.)

1) $\frac{5}{n} = \frac{3}{2}$

2) $\frac{x}{4} = \frac{3}{2}$

3) $\frac{2}{9} = \frac{k}{10}$

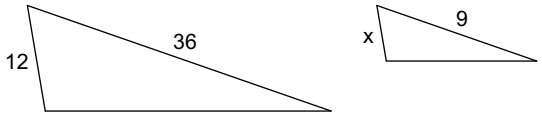
4) $\frac{6}{4} = \frac{8}{m}$

5) $\frac{4m}{6} = \frac{5}{7}$

6) $\frac{10}{7} = \frac{n}{8}$

Each pair of figures is similar. Find the missing side.

7)



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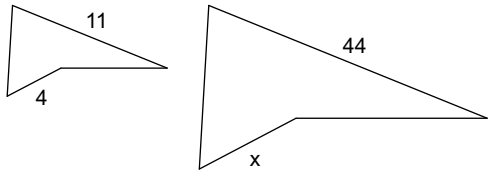

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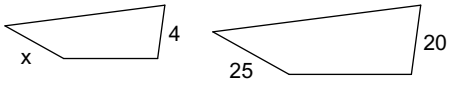

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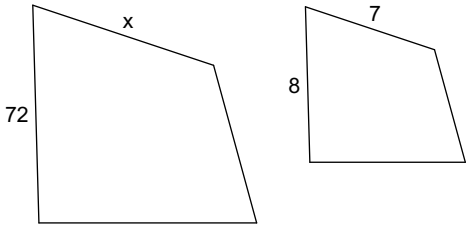

Answer each question and round your answer to the nearest whole number.

11) A model car has a scale of 1 in : 3 ft. If the real car is 15 ft long, then how long is the model car?

12) A telephone booth that is 8 ft tall casts a shadow that is 20 ft long. Find the height of a car that casts a 15 ft shadow.

13) If a 6 ft tall man casts a 4 ft long shadow, then how tall is a cardboard box that casts a 2 ft shadow?

14) A particular statue is 16 ft tall. A model of it was built with a scale of 1 in : 2 ft. How tall is the model?