

Name: \_\_\_\_\_

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### Similar Figures Word Problems

Date: \_\_\_\_\_ Period: \_\_\_\_\_

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

- 1) A tall tree standing next to a smaller tree casts a 100 shadow. If the smaller tree casts a shadow that is 10 long, how tall is the tree?
- 2) A telephone booth that is 4 ft tall casts a shadow that is 8 ft long. Find the height of a fence segment that casts a 10 shadow.
- 3) A map has a scale of 1 cm = 10 km. If Milwaukee and Southfield are 140 km apart, how far are they on the map?
- 4) Find the distance between Elmville and Milton if they are 12 cm apart on a map with a scale of 1 cm = 20 km.
- 5) A model house is 10 cm wide. If it was built with a scale of 1 cm = 1 meter, how wide is the real house?
- 6) Chad Green and Robert are 47 meters each tall. How far apart would the other two on a map that has a scale of 1 in = 20 mi?
- 7) A map has a scale of 1 in = 1 mi. If 4 towns and 1 community are 100 mi apart on the map, how far are they on the real world?
- 8) A statue that is 10 ft tall casts a shadow that is 12 ft long. Find the length of the shadow that a 20 ft tall person casts.

**Solve each question and round your answer to the nearest tenth.**

- 9) A model house that is wide of 1 in = 1 ft. If the real house is 20 ft wide, how far wide is the model house?
- 10) A 4.5 ft tall tree standing next to an adult elephant casts a 10.2 ft shadow. If the adult elephant casts a shadow that is 16.3 ft long, how far tall is it?
- 11) If a 6 ft tall flagpole casts a 10.5 ft long shadow, how far long is the shadow that a 4 ft tall person casts?
- 12) Christopher and Frankie are 8 ft apart on a map that has a scale of 1 in = 10 mi. How far apart are they on the real world?