Vame:	
Date:	Period:

Similar Figure Word Problems

Answer each question, showing all work, and round your answer to the nearest whole number. Draw a picture if needed.

- 1) A 6ft tall tent standing next to a cardboard box casts a 9ft shadow. If the cardboard box casts a shadow that is 6ft long then how tall is it?
- 2) A model house is 12cm wide. If it was built with a scale of 3cm:4m then how wide is the real house?

- 3) A telephone booth that is 8ft tall casts a shadow that is 4ft long. Find the height of a lawn ornament that casts a 2ft shadow.
- 4) Oak Grove and Salem are 87mi from each other. How far apart would the cities be on a map that has a scale of 5in: 29mi?
- 5) A map has a scale of 3cm:18km. If Riverside and Smithville are 54km apart then they are how far apart on the map?
- 6) A map has a scale of 2in: 6 mi.
 If Clayton and Centerville are 10in
 apart on the map then how far
 apart are the real cities?

- 7) Find the distance between Riverside and Milton if they are 12cm apart on a map with a scale of 4cm: 21km.
- 8) A statue that is 12ft tall casts a shadow that is 15ft long. Find the length of the shadow that a 8ft cardboard box casts.

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Similar Figure Word Problems

9) A model house has a scale of 1in: 2 ft. If the real house is 26ft wide then how wide is the model house?

10) Georgetown and Franklin are 9.7in apart on a map that has a scale of 1.1in: 15mi. How far part are the real cities?

11) A 6.5ft tall car standing next to an adult elephant casts a 33.2ft shadow. If the adult elephant casts a shadow that is 51.5ft long then how tall is it?

12) A picture 4in tall and 9in wide is to be scaled to 2.5in tall to be displayed on a web page. How wide should the picture be on the web page for the two pictures to be similar?

13) If a 49.2 ft tall flagpole casts a 253.1 ft long shadow then how long is the shadow that a 6.2ft tall woman casts?

14) A company's logo is in the shape of an isosceles triangle with two sides that are each 2.4in long and one side that is 1.8in long. On a billboard, the triangles in the logo has two sides that are each 8ft long. What is the length of the third side of the triangle on the billboard?