Unit 3 Lesson 8 – Similar Figures

1.) If a 6 foot tall tent casts a 10 foot long shadow, then how long is the shadow that a 9 foot tall adult elephant casts?

2.) A model plane has a scale of 1 inch = 6 yards. If the model plane is 3 inches tall, then how tall is the real plane?

3.) A particular motorcycle is 9 feet long. A model of it was built with a scale of 1 inch = 3 feet. How long is the model?

4.) A particular satellite is 15 meters wide. A model of it was built with a scale of 1 centimeter = 5 meters. How wide is the model?

5.) A model train is 7 inches tall. If it was built with a scale of 1 inch = 2 feet, then how tall is the real train?

6.) Find the distance between Riverside and Victoria if they are 9 cm apart on a map with a scale of 1 cm = 18 km.

7.) Milton and San Jose are 9 in apart on a map that has a scale of 1 in = 13 mi. How far apart are the real cities?

8.) A 15 ft tall statue standing next to an adult elephant casts an 18 ft shadow. If the adult elephant is 10 ft tall, then how long is its shadow?

9.) Find the distance between Fairview and Riverside if they are 4 in apart on a map with a scale of 1 in = 3 mi.

10.) A globe that is 3 ft tall casts a shadow that is 7 ft long. Find the length of the shadow that a 6 ft woman casts.

11.) A 6 ft tall man standing next to a tree casts an 8 ft shadow. If the tree is 15 ft tall, then how long is its shadow?

12.) An 8 ft tall telephone booth standing next to an adult giraffe casts a 4 ft shadow. If the adult giraffe is 14 ft tall, then how long is its shadow?