

## Worksheet 3 - Shadow Problems

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

- 1) If a 10 ft tall tent casts a 20 ft long shadow then how long is the shadow that a 8 ft tall baby giraffe casts?
- 2) If a 20 ft tall flagpole casts a 10 ft long shadow then how long is the shadow that a 6 ft tall petrified stump casts?
- 3) A tent that is 8 ft tall casts a shadow that is 12 ft long. Find the length of the shadow that a 2 ft globe casts.
- 4) An adult giraffe that is 14 ft tall casts a shadow that is 7 ft long. Find the length of the shadow that a 2 ft globe casts.
- 5) If a 6 ft tall car casts a 9 ft long shadow then how tall is a globe that casts a 3 ft shadow?
- 6) A cardboard box that is 4 ft tall casts a shadow that is 2 ft long. Find the height of an adult giraffe that casts a 7 ft shadow.
- 7) A 16 ft tall statue standing next to a lawn ornament casts a 4 ft shadow. If the lawn ornament casts a shadow that is 1 ft long then how tall is it?
- 8) If a 4 ft tall cardboard box casts a 2 ft long shadow then how long is the shadow that a 14 ft tall statue casts?

- 9) A woman that is 6 ft tall casts a shadow that is 12 ft long. Find the height of an adult elephant that casts a 16 ft shadow.
- 10) A cardboard box that is 6 ft tall casts a shadow that is 14 ft long. Find the length of the shadow that a 3 ft bird bath casts.
- 11) A 2 ft tall lawn ornament standing next to a man casts a 4 ft shadow. If the man is 6 ft tall then how long is his shadow?
- 12) A 6 ft tall car standing next to an adult giraffe casts a 3 ft shadow. If the adult giraffe casts a shadow that is 7 ft long then how tall is it?

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

- 13) A tent that is 5.5 ft tall casts a shadow that is 24.8 ft long. Find the length of the shadow that a 3.4 ft cardboard box casts.
- 14) A petrified stump that is 5.9 ft tall casts a shadow that is 28.3 ft long. Find the length of the shadow that a 2.7 ft baby elephant casts.
- 15) A 6.7 ft tall car standing next to a ladder casts a 26.1 ft shadow. If the ladder is 10.5 ft tall then how long is its shadow?
- 16) If a 3.3 ft tall baby elephant casts a 9.9 ft long shadow then how long is the shadow that a 6.5 ft tall baby giraffe casts?