



## Similar figures - word problems

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

- 1) An adult giraffe that is 18 ft tall casts a shadow that is 14 ft long. Find the length of the shadow that a 9 ft telephone booth casts.
- 2) A globe that is 3 ft tall casts a shadow that is 2 ft long. Find the length of the shadow that a 12 ft statue casts.
- 3) If a 4 ft tall bird bath casts a 2 ft long shadow then how long is the shadow that a 18 ft tall statue casts?
- 4) A 18 ft tall statue standing next to a cardboard box casts a 6 ft shadow. If the cardboard box is 3 ft tall then how long is its shadow?
- 5) A man that is 6 ft tall casts a shadow that is 12 ft long. Find the length of the shadow that a 9 ft telephone booth casts.
- 6) A 10 ft tall adult elephant standing next to a cardboard box casts a 5 ft shadow. If the cardboard box is 2 ft tall then how long is its shadow?

- 7) A 16 ft tall adult giraffe standing next to a petrified stump casts a 8 ft shadow. If the petrified stump is 6 ft tall then how long is its shadow?
- 8) A 6 ft tall car standing next to a tent casts a 12 ft shadow. If the tent is 4 ft tall then how long is its shadow?
- 9) A woman that is 6 ft tall casts a shadow that is 10 ft long. Find the length of the shadow that a 9 ft tent casts.
- 10) If a 8 ft tall cardboard box casts a 14 ft long shadow then how long is the shadow that a 4 ft tall bird bath casts?
- 11) If a 18 ft tall statue casts a 9 ft long shadow then how tall is a telephone booth that casts a 4 ft shadow?
- 12) An adult giraffe that is 14 ft tall casts a shadow that is 16 ft long. Find the height of a man that casts a 8 ft shadow.
- 13) If a 6 ft tall baby giraffe casts a 15 ft long shadow then how long is the shadow that a 8 ft tall telephone booth casts?
- 14) A 2 ft tall globe standing next to a woman casts a 3 ft shadow. If the woman is 6 ft tall then how long is her shadow?

15) If a 8 ft tall telephone booth casts a 16 ft long shadow then how long is the shadow that a 6 ft tall woman casts?

16) If a 8 ft tall cardboard box casts a 4 ft long shadow then how long is the shadow that a 14 ft tall statue casts?

17) A petrified stump that is 8 ft tall casts a shadow that is 16 ft long. Find the length of the shadow that a 6 ft baby giraffe casts.

18) A 4 ft tall car standing next to a baby giraffe casts a 6 ft shadow. If the baby giraffe is 8 ft tall then how long is its shadow?

19) If a 6 ft tall man casts a 5 ft long shadow then how tall is an adult giraffe that casts a 15 ft shadow?

20) If a 3 ft tall baby elephant casts a 6 ft long shadow then how long is the shadow that a 6 ft tall baby giraffe casts?

21) A lawn that is 4 ft tall casts a shadow that is 3 ft long. Find the height of a petrified stump that casts a 6 ft shadow.

22) If a 18 ft tall adult giraffe casts a 3 ft long shadow then how long is the shadow that a 6 ft tall woman casts?

23) If a 9 ft tall telephone booth casts a 18 ft long shadow then how tall is a lawn that casts a 12 ft shadow?

24) A 8 ft tall telephone booth standing next to a baby elephant casts a 4 ft shadow. If the baby elephant is 4 ft tall then how long is its shadow?

25) A 10 ft tall statue standing next to a cardboard box casts a 15 ft shadow. If the cardboard box casts a shadow that is 3 ft long then how tall is it?

26) A 5 ft tall petrified stump standing next to an adult elephant casts a 10 ft shadow. If the adult elephant is 10 ft tall then how long is its shadow?

27) A 10 ft tall tent standing next to a baby elephant casts a 20 ft shadow. If the baby elephant casts a shadow that is 8 ft long then how tall is it?

28) If a 6 ft tall car casts a 3 ft long shadow then how long is the shadow that a 14 ft tall adult giraffe casts?

29) If a 3 ft tall car casts a 10 ft long shadow then how tall is a woman that casts a 20 ft shadow?

30) A 8 ft tall baby giraffe standing next to a statue casts a 4 ft shadow. If the statue casts a shadow that is 7 ft long then how tall is it?

## Answers to Similar figures - word problems

1) 7 ft  
5) 18 ft  
9) 15 ft  
13) 20 ft  
17) 12 ft  
21) 8 ft  
25) 2 ft  
29) 6 ft

2) 8 ft  
6) 1 ft  
10) 7 ft  
14) 9 ft  
18) 12 ft  
22) 1 ft  
26) 20 ft  
30) 14 ft

3) 9 ft  
7) 3 ft  
11) 8 ft  
15) 12 ft  
19) 18 ft  
23) 6 ft  
27) 4 ft

4) 1 ft  
8) 8 ft  
12) 7 ft  
16) 7 ft  
20) 12 ft  
24) 2 ft  
28) 7 ft