

Solving Proportion Word Problems Involving Similar Figures

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

- 1) If a 6 ft tall tent casts a 10 ft long shadow then how long is the shadow that a 9 ft tall adult elephant casts?
- 2) A model plane has a scale of 1 in : 6 yd. If the model plane is 3 in tall then how tall is the real plane?
- 3) A particular motorcycle is 9 ft long. A model of it was built with a scale of 1 in : 3 ft. How long is the model?
- 4) A particular satellite is 15 m wide. A model of it was built with a scale of 1 cm : 5 m. How wide is the model?
- 5) A model train is 7 in tall. If it was built with a scale of 1 in : 2 ft 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 a 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 a 8 ft shadow. If the tree is 15 ft tall then how long is its shadow?
- 12) A 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?

- 13) If a 3 ft tall car casts a 5 ft long shadow then how long is the shadow that a 9 ft tall adult elephant casts?
- 14) A particular giraffe is 12 ft tall. A model of it was built with a scale of 1 in : 2 ft. How tall is the model?
- 15) A 8 ft tall tent standing next to a bird bath casts a 18 ft shadow. If the bird bath is 4 ft tall then how long is its shadow?
- 16) If a 18 ft tall tree casts a 9 ft long shadow then how tall is an adult giraffe that casts a 7 ft shadow?
- 17) Find the distance between Mount Pleasant and Madison on a map with a scale of 1 cm : 14 km if they are actually 98 km apart.
- 18) If a 3 ft tall globe casts a 1 ft long shadow then how tall is an adult giraffe that casts a 6 ft shadow?
- 19) Fairview and Madison are 36 km from each other. How far apart would the cities be on a map that has a scale of 1 cm : 12 km?
- 20) Find the distance between San Jose and Mount Pleasant if they are 2 cm apart on a map with a scale of 1 cm : 9 km.
- 21) A model igloo has a scale of 1 in : 2 ft. If the real igloo is 10 ft wide then how wide is the model igloo?
- 22) Rivertown and Marion are 108 km from each other. How far apart would the cities be on a map that has a scale of 1 cm : 12 km?
- 23) A 2 ft tall globe standing next to a baby giraffe casts a 3 ft shadow. If the baby giraffe casts a shadow that is 12 ft long then how tall is it?
- 24) A model satellite has a scale of 1 cm : 2 m. If the real satellite is 12 m wide then how wide is the model satellite?

Answers to Solving Proportion Word Problems Involving Similar Figures

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| 1) 15 ft | 2) 18 yd | 3) 3 in | 4) 3 cm |
| 5) 14 ft | 6) 162 km | 7) 117 mi | 8) 12 ft |
| 9) 12 mi | 10) 14 ft | 11) 20 ft | 12) 7 ft |
| 13) 15 ft | 14) 6 in | 15) 9 ft | 16) 14 ft |
| 17) 7 cm | 18) 18 ft | 19) 3 cm | 20) 18 km |
| 21) 5 in | 22) 9 cm | 23) 8 ft | 24) 6 cm |