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.

$$\frac{1}{9}=\frac{2}{x}$$

**x = 18 km**

A particular giraffe is 12 ft tall. A model of it was built with a scale of 1 in = 2ft. How tall is the model?

$$\frac{1}{2}=\frac{x}{12}$$

$$\frac{2x}{2}=\frac{12}{2}$$

**x = 6 in**

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?

$$\frac{1}{2}=\frac{x}{10}$$

$$\frac{2x}{2}=\frac{10}{2}$$

**x = 5 in**

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?

$$\frac{1}{12}=\frac{x}{108}$$

$$\frac{12x}{12}=\frac{108}{12}$$

**x = 9 cm**

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?

$$\frac{3}{5}=\frac{9}{x}$$

$$\frac{3x}{3}=\frac{45}{3}$$

**x = 15 ft shadow**

An 8 ft tall tent standing next to a bird bath casts an 18 ft shadow. If the bird bath is 4 ft tall, then how long is its shadow?

$$\frac{8}{18}=\frac{4}{x}$$

$$\frac{8x}{8}=\frac{72}{8}$$

**x = 9 ft shadow**

If an 18 ft tall tree casts a 9 ft long shadow, then how tall is an adult giraffe that casts a 7 ft shadow?

$$\frac{18}{9}=\frac{x}{7}$$

$$\frac{9x}{9}=\frac{126}{9}$$

**x = 14 ft tall**

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?

$$\frac{3}{1}=\frac{x}{6}$$

**x = 18 ft tall**

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.

$$\frac{1}{14}=\frac{x}{98}$$

$$\frac{14x}{14}=\frac{98}{14}$$

**x = 7 cm**

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?

$$\frac{1}{12}=\frac{x}{36}$$

$$\frac{12x}{12}=\frac{36}{12}$$

**x = 3 cm**

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?

$$\frac{2}{3}=\frac{x}{12}$$

$$\frac{3x}{3}=\frac{24}{3}$$

**x = 8 ft tall**

A model satellite has a scale of 1 cm = 2m. If the real satellite is 12 m wide, then how wide is the model satellite?

$$\frac{1}{2}=\frac{x}{12}$$

$$\frac{2x}{2}=\frac{12}{2}$$

**x = 6 cm**