

Name : _____

Scale Factors

L1S5

- 1) The action figure toys of a multinational toy company are based on the usual ideal human figure of 6 feet for standardization purpose. If a common scale factor of 1 inch = 2 feet is applied, determine the height of an action figure toy.

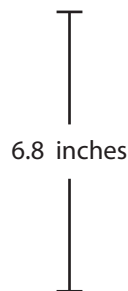
- 2) Fabian makes a scale drawing of his tree house with a scale factor of 1 foot = 0.44 inch. If the length of the tree house in the drawing is 3.52 inches, what is the actual length of the tree house?

- 3) The distance between two cities on an interactive map is 4 inches. If the actual distance between the two cities is 64 miles, calculate the actual distance between the two cities.

- 4) The captain of the ship planned to sail from one marina to another. On the map, the same distance is depicted on the map as 4 inches. If the actual distance between the two marinas is 69 nautical miles, find the distance between the two marinas.

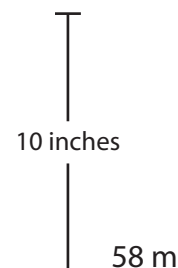
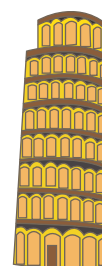
- 5) Scale factor : 1 inch = 19 feet

Model



Actual height of the tree = _____

Model



Actual height of the Leaning Tower of Pisa = _____

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Name : _____

Answer key

Scale Factors

L1S5

- 1) The action figure toys of a multinational toy company are based on the usual ideal human figure of 6 feet for standardization purpose. If a common scale factor of 1 inch = 2 feet is applied, determine the height of an action figure toy.

3 inches

- 2) Fabian makes a scale drawing of his tree house with a scale factor of 1 foot = 0.44 inch. If the length of the tree house in the drawing is 3.52 inches, what is the actual length of the tree house?

8 feet

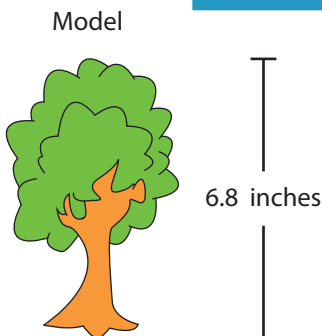
- 3) The distance between two cities on an interactive map is 4 inches. Calculate the actual distance between the two cities.

26.2 miles

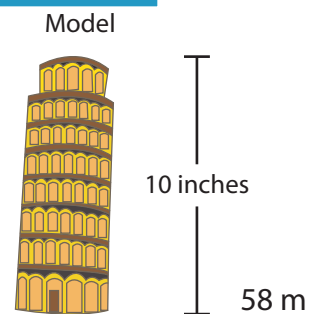
- 4) The captain of the ship planned to sail from one marina to another. On the map, the same distance is depicted as 7.5 inches. Find the distance between the two marinas. He used a scale of 1 inch = 19 feet.

7.5 inches

- 5) Scale factor : 1 inch = 19 feet



Actual height of the tree = 50.32 feet



Actual height of the Leaning Tower of Pisa = 190 feet

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Boston Marathon is 4 inches on the map. Calculate the actual distance between the two marinas.

Find the distance between the two marinas. He used a scale of 1 inch = 19 feet.