

Name : \_\_\_\_\_

## Scale Factors

L1S1

- 1) A cartographer creates a map of Bucks County with a scale factor of 1 inch = 2.5 miles. The distance between Quakertown and Sellersville is 2.92 inches on the map. Determine the actual distance between the two boroughs.

\_\_\_\_\_

- 2) John, an architect, used a scale factor of 1 inch = 20 feet to design a site plan. The actual car park has been designed to be 18 feet long. Determine the length of the car park as depicted in the blueprint.

\_\_\_\_\_

- 3) Lara made a scale model of a monument. If the height of the model is 1.6 feet, determine the actual height of the monument.

\_\_\_\_\_

- 4) Elijah builds a model of a popular car. He uses a scale factor of 1 inch = 1.6 feet. The model is 13.5 feet long. Determine the actual length of the car.

\_\_\_\_\_

- 5) A scale factor of 1 inch = 0.5 foot is used to create a model of a tree. The model is 15 inches tall. Determine the actual height of the tree.

\_\_\_\_\_

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Model



15 inches

Actual height of the tree = \_\_\_\_\_

Model



2.34 inches

Actual length of the seahorse = \_\_\_\_\_

Name : \_\_\_\_\_

## Answer key

### Scale Factors

L1S1

- 1) A cartographer creates a map of Bucks County with a scale factor of 1 inch = 2.5 miles. The distance between Quakertown and Sellersville is 2.92 inches on the map. Determine the actual distance between the two boroughs.

7.3 miles

- 2) John, an architect, used a scale factor of 1 inch = 20 feet to design a site plan. The actual car park has been designed to be 18 feet long. Determine the length of the car park as depicted in the blueprint.

0.9 inch

- 3) Lara made a scale model of a monument with a scale factor of 1 inch = 1.6 feet. If the height of the model is 17.31 inches, determine the actual height of the monument.

27.84 feet

- 4) Elijah builds a model of a popular car. He uses a scale factor of 1 inch = 5 feet. If the model is 0.54 inches long, determine the actual length of the car.

2.7 inches

- 5) A scale factor of 1 inch = 30 feet is used to create a model of a tree. If the model is 1.5 inches tall, determine the actual height of the tree.

Model



15 inches

Actual height of the tree = 45 feet

Model



2.34 inches

Actual length of the seahorse = 1.17 feet

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