

Name : _____

Scale Factors

L2S1

- 1) Henry painted a picture of his house on canvas. The actual width of the driveway is 20 feet. If it is represented with a width of 4 inches on the canvas, what was the scale factor used?

- 2) The distance between Janet's home and her office is represented on the map with a scale factor of 1 inch = 5.6 miles. If the distance between the two locations on the map is 3 inches, calculate the actual distance between the two locations.

- 3) At the museum, Melanie sketched a dinosaur. The height of the dinosaur in the drawing is 3.7 inches. The actual height of the dinosaur is 11.1 feet. What scale factor did Melanie use to sketch the dinosaur?

- 4) Roger designs a floor plan for a house. The scale factor is 1 foot = 0.2 inch. If the length of the house on the blueprint is 10 inches, calculate the actual length of the house.

- 5) Louise stops at the gift store to buy a souvenir of the Statue of Liberty. The original height of the statue is 151 feet. If a scale factor of 1 inch = 20 feet is used to design the souvenir, what is the height of the replica?

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Name : _____

Answer key

Scale Factors

L2S1

- 1) Henry painted a picture of his house on canvas. The actual width of the driveway is 20 feet. If it is represented with a width of 4 inches on the canvas, what was the scale factor used?

1 inch = 5 feet

- 2) The distance between Janet's home and her office is represented on the map with a scale factor of 1 inch = 5.6 miles. If the distance between the two locations on the map is 3 inches, calculate the actual distance between the two locations.

- 3) At the museum, Melanie sketched a drawing of a dinosaur. The height of the dinosaur in the drawing is 3.7 inches. The actual height of the dinosaur is 148 inches. What scale factor did Melanie use to sketch the drawing?

- 4) Roger designs a floor plan for a house. The length of the hallway in the blueprint is 0.2 inches. Calculate the actual length of the hallway if the scale factor is 1 foot = 0.2 inch.

12 feet

- 5) Louise stops at the gift store to buy a souvenir of the Statue of Liberty. The original height of the statue is 151 feet. If a scale factor of 1 inch = 20 feet is used to design the souvenir, what is the height of the replica?

7.55 inches