

Name : _____

Scale Factors

L2S3

- 1) Eric had to assemble the metal frame of a bed. On the instruction sheet, the length of bed frame was denoted as 4 inches. If a scale factor of 1 inch = 1.6 feet was used in the instruction sheet, what was the actual length of the bed frame?

- 2) Gwen gets off the train and buys a map of a city to visit tourist attractions. The actual length of the pier along the beach is 5.5 miles. On the map, the distance was scaled down to 2 inches. Determine the scale factor used.

- 3) Nigella makes a scale drawing of a rectangular park. The scale used is 1 inch = 1,400 feet. The actual length of one of the sides of the park is 12 inches. What is the actual length of the side in Nigella's drawing?

- 4) Kenneth plans to take a road trip. He wants to travel the same distance on the map as he will travel in real life. If the scale is 1 inch = 100 miles, how far will he travel on the map?

- 5) Bianca uses an overhead projector to explain a new concept to her students. The width of the projected image measures 24 feet, whereas the actual width of the original image is 120 inches. Find the scale factor used to enlarge the actual image.

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