

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 road. The length of one of the roads in the drawing is 4 inches.

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The actual length of the road is 560 feet. How long is the road in Nigella's drawing?

- 4) Kenneth plans to take a road trip. He wants to travel the same distance on the map as he would travel in real life.

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He has a map of the road that is 1/4 inch long. The actual road is 1,400 feet long. How far is the road from his home. If the map scale is 1 inch = 1,400 feet.

- 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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6.4 feet

- 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 road. The length of one of the roads in the drawing is 4 inches. The actual length of the road is 560 feet. What is the scale factor used?

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= 1,400 feet. The actual length of the road in Nigella's drawing.

- 4) Kenneth plans to take a road trip. He has a map that shows a distance of 2 inches. The actual distance is 1 mile. What is the scale factor used?

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1 inch = 0.5 mile

- 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.

1 inch = 0.2 foot