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 in the map.

3) Nigella makes a scale drawing of the airport with a scale factor of 1 inch = 1,400 feet. The actual length of one of the runways is 7,000 feet. Find the length of the runway in Nigella’s drawing.

4) Kenneth plans to take his kids to the water theme park, that is 6 miles away from his home. If the same distance on the map is 12 inches, compute the scale factor of 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.
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?

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 in the map.

1 inch = 2.75 miles

3) Nigella makes a scale drawing of the airport with a scale factor of 1 inch = 1,400 feet. The actual length of one of the runways is 7,000 feet. Find the length of the runway in Nigella's drawing.

5 inches

4) Kenneth plans to take his kids to the water theme park, that is 6 miles away from his home. If the same distance on the map is 12 inches, compute the scale factor of the map.

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