1) As a part of her project, Flora made a scale drawing of the zoo with a scale factor of 1 inch = 5.77 feet. If the diameter of the bug carousel in the drawing was 3 inches, determine the actual diameter of the carousel.

2) Nick and Jamie are on the way to Oxford to attend a conference. The actual distance from their start point to their venue is 7.5 miles. The same distance is 5 inches on the map. Determine the scale factor used to design the map.

3) Douglas uses a map of the city to visit tourist destinations. The distance between the art museum and the beach is 1.6 inches on the map. With a scale factor of 1 inch = 13.6 miles, what is the actual distance between the art museum and the beach?

4) Howard, an urban planner, drew a site plan. The width of the road in the plan measured 48 inches. The actual width of the road would be 108 feet. Determine the scale factor used to design the site plan.

5) The central chamber of the Lincoln memorial features a statue of Abraham Lincoln that stands 19 feet high. A scale factor of 1 inch = 4 feet is used to make a miniature model. Determine the height of the model.
1) As a part of her project, Flora made a scale drawing of the zoo with a scale factor of 1 inch = 5.77 feet. If the diameter of the bug carousel in the drawing was 3 inches, determine the actual diameter of the carousel.

**17.31 feet**

2) Nick and Jamie are on the way to Oxford to attend a conference. The actual distance from their start point to their venue is 7.5 miles. The same distance is 5 inches on the map. Determine the scale factor used to design the map.

**1 inch = 1.5 miles**

3) Douglas uses a map to visit the tourist destinations. The distance between the art museum and the beach is 1.6 inches on the map. If the map is drawn with a scale factor of 1 inch = 13.6 miles, what is the actual distance between the art museum and beach?

**21.76 miles**

4) Howard, an urban planner, drew a site plan. The width of the road in the plan measured 48 inches. The actual width of the road would be 108 feet. Determine the scale factor used to design the site plan.

**1 inch = 2.25 feet**

5) The central chamber of the Lincoln memorial features a statue of Abraham Lincoln that stands 19 feet high. A scale factor of 1 inch = 4 feet is used to make a miniature model. Determine the height of the model.

**4.75 inches**