

Name : _____

Scale Factors

L2S5

- 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

- 3) Douglas uses a map to find the distance between the art museum and the beach. The scale factor is 1 inch = 13.6 miles, and the distance on the map is 3 inches.

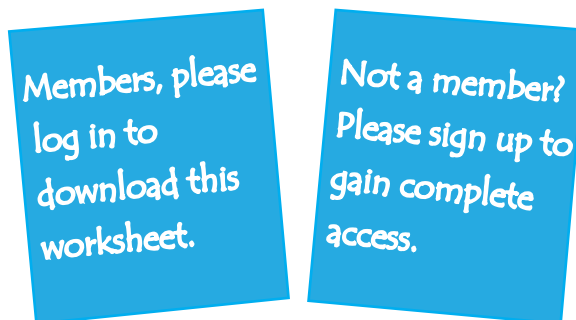
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distance between the art museum and the beach? Determine the actual distance.

- 4) Howard, an urban planner, designed a site plan for a new city. The actual width of the city is 12 miles. The site plan measured 48 inches.

What scale factor was 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.



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Name : _____

Answer key

Scale Factors

L255

- 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

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- 3) Douglas uses a map between the art museum and the beach with a scale factor of 1 inch = 13.6 miles,

the distance between the art museum and the beach is 5 inches. Determine the actual distance between the art museum and the beach?

- 4) Howard, an urban planner, used a site plan to design the central chamber of the Lincoln memorial. The actual width of the chamber is 108 feet. The site plan measured 48 inches.

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
