

Name : _____

Scale Factors

L1S3

- 1) Daphne, an architect, creates a blue print for a strip mall with a scale factor of 1 foot = 0.8 inch. If the actual width of a parking bay is 8 feet, find its width in the blue print.

- 2) Camilla designed a festive birthday banner measuring 2 inches on her laptop. She sends a copy of it to a digital printing company which used a scale factor of 1 inch = 4 feet to enlarge the image. Determine the length of the printed banner.

- 3) Rick used a scale factor of 1 inch = 10 feet to enlarge the length of the truck in his model.

The actual length of the truck is 100 feet. How long is the model truck?

- 4) Beth planned to travel from New York to Los Angeles. The distance on the map is 2.48 inches. If the scale factor is 1 inch = 0.4 mile, find the actual distance between the two places.

The actual distance between the two places is 124 miles. How long is the map?

- 5) A model of an aircraft has a scale factor of 1 inch = 132.875 feet. The model is 5.9 inches long. Find the actual length of the aircraft.

A model of the Eiffel Tower has a scale factor of 1 inch = 132.875 feet. The model is 8 inches high. Find the actual height of the Eiffel Tower.

PREVIEW

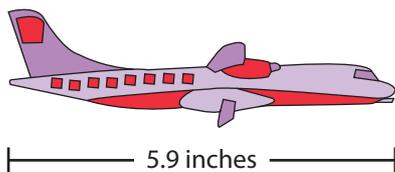
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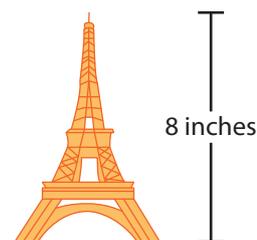
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Model



Actual length of an aircraft = _____

Model



Actual height of the Eiffel Tower = _____

Name : _____

Answer key

Scale Factors

L1S3

- 1) Daphne, an architect, creates a blue print for a strip mall with a scale factor of 1 foot = 0.8 inch. If the actual width of a parking bay is 8 feet, find its width in the blue print.

6.4 inches

- 2) Camilla designed a festive birthday banner measuring 2 inches on her laptop. She sends a copy of it to a digital printing company which used a scale factor of 1 inch = 4 feet to enlarge the image. Determine the length of the printed banner.

8 feet

- 3) Rick used a scale factor of 1 inch = 1.5 feet to enlarge a drawing of his father's truck. The actual length of the truck is 17.25 feet. Find the length of the drawing.

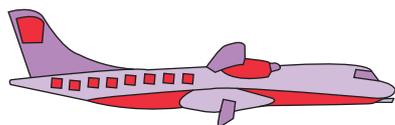
11.5 inches

- 4) Beth planned to travel from London to New York. The distance between the two places on the map is 2.48 inches on the map. If the scale factor is 1 mile = 0.4 inch, find the actual distance between the two places.

6.2 miles

- 5) A model of the Eiffel Tower has a height of 8 inches. If the scale factor is 1 inch = 16.6125 feet, find the actual height of the Eiffel Tower.

Model



5.9 inches

Actual length of an aircraft = 236 feet

Model



8 inches

Actual height of the Eiffel Tower = 1,063 feet