

Name : \_\_\_\_\_

## Scale Factors

L1S2

- 1) The blue print of Vanessa's new home was drawn with a scale factor of 1 foot = 0.33 inch. The actual length of the living room was to measure 12 feet. Determine the length of the living room shown in the blueprint.

\_\_\_\_\_

- 2) A toy manufacturing company produces die cast model cars of the Volkswagen Beetle using a scale factor of 1 inch = 3.6 feet. If the die cast car is 3.75 inches long, calculate the actual length of the Beetle.

\_\_\_\_\_

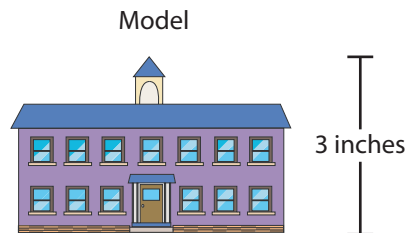
- 3) Chloe makes a scale drawing of a soccer field. The length of the soccer field is 100 yards. The scale factor is 1 inch = 20 yards. Find the length of the field in the drawing.

\_\_\_\_\_

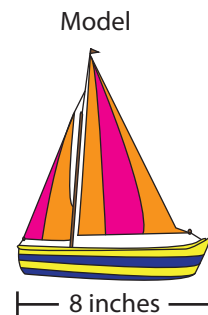
- 4) Alan uses a map to find the location of his high school reunion. The map shows a scale factor of 1 inch = 2.5 miles. The distance between the school and the venue is 5 inches on the map. How far is the venue from the school?

\_\_\_\_\_

- 5) A scale drawing of a building has a scale factor of 1 inch = 12.5 feet. The drawing shows a building that is 3 inches high. How tall is the actual building?



Actual height of the building = \_\_\_\_\_



Actual length of the sailing boat = \_\_\_\_\_

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Name : \_\_\_\_\_

## Answer key

### Scale Factors

L1S2

- 1) The blue print of Vanessa's new home was drawn with a scale factor of 1 foot = 0.33 inch. The actual length of the living room was to measure 12 feet. Determine the length of the living room shown in the blueprint.

3.96 inches

- 2) A toy manufacturing company produces die cast model cars of the Volkswagen Beetle using a scale factor of 1 inch = 3.6 feet. If the die cast car is 3.75 inches long, calculate the actual length of the Beetle.

13.5 feet

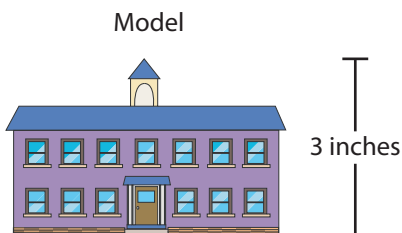
- 3) Chloe makes a scale drawing of a soccer field. The length of the soccer field is 100 yards. The scale factor of the drawing is 1 inch = 20 yards. Find the length of the field in the drawing.

5 inches

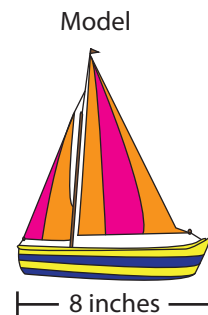
- 4) Alan uses a map to find the distance between two cities. The distance between the two cities is 168.75 miles. The scale factor of the map is 1 inch = 2.5 miles. How far apart are the two cities on the map?

67.5 miles

- 5) A scale drawing of a building is shown. The scale factor is 1 inch = 12.25 feet. The actual height of the building is \_\_\_\_\_ feet.



Actual height of the building = 33 feet



Actual length of the sailing boat = 98 feet

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