

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

## Scale Factors

L1S2

- 1) The blue print of Vanessa's new home was drawn with a scale factor of  $1 \text{ m} = 0.33 \text{ cm}$ . The actual length of the living room was to measure  $12 \text{ m}$ . Determine the length of the living room shown in the blueprint.

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- 2) A toy manufacturing company produces die cast model cars of the Volkswagen Beetle using a scale factor of  $1 \text{ cm} = 0.4 \text{ m}$ . If the die cast car is  $10.2 \text{ cm}$  long, calculate the actual length of the Beetle.

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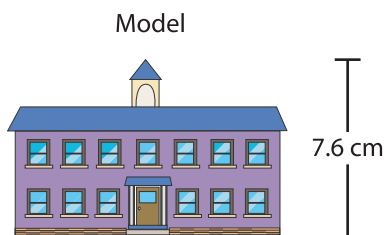
- 3) Chloe makes a scale drawing of the soccer field design. The scale factor is  $1 \text{ cm} = 20 \text{ m}$ . Find the length of the soccer field if the length of the field is  $100 \text{ m}$ .

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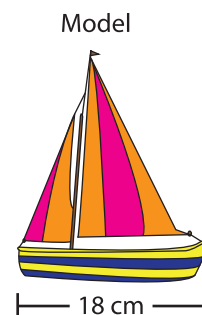
- 4) Alan uses a map to find the location of his high school reunion. The scale factor of the map is  $1 \text{ cm} = 2.5 \text{ km}$ . The distance between the school and the venue is  $5 \text{ cm}$  on the map. Find the actual distance between the school and the venue in kilometers.

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- 5) A scale drawing of a building has a scale factor of  $1 \text{ cm} = 0.85 \text{ m}$ . The height of the building in the drawing is  $7.6 \text{ cm}$ . Find the actual height of the building.



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



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

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