

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

## Scale Factors

L1S1

- 1) A cartographer creates a map with a scale factor of  $1 \text{ cm} = 7.48 \text{ km}$ . The distance between Edinburgh and Glasgow is  $10 \text{ cm}$  on the map. Determine the actual distance between the two cities.

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- 2) John, an architect, used a scale factor of  $1 \text{ cm} = 0.7 \text{ m}$  to design a site plan. The actual car park has been designed to be  $4.83 \text{ m}$  long. Determine the length of the car park as depicted in the blueprint.

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- 3) Lara made a scale model of a monument. If the height of the model is  $10 \text{ cm}$ , determine the actual height of the monument.

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- 4) Elijah builds a model of a popular car. He uses a scale factor of  $1 \text{ cm} = 1.6 \text{ m}$ . If the actual car is  $10 \text{ cm}$  long, determine the actual length of the car.

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- 5) A model of a seahorse is  $177.8 \text{ cm}$  long. If the scale factor is  $1 \text{ cm} = 0.002 \text{ m}$ , determine the actual length of the seahorse.

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Model



12 cm

Actual height of the tree = \_\_\_\_\_

Model



177.8 cm

Actual length of the seahorse = \_\_\_\_\_