

Name : _____

Scale Factors

L1S5

- 1) The action figure toys of a multinational toy company are based on the usual ideal human figure of 183 cm for standardisation purpose. If a common scale factor of $1 \text{ mm} = 0.6 \text{ cm}$ is applied, determine the height of an action figure toy.

- 2) Fabian makes a scale drawing of his tree house with a scale factor of $1 \text{ m} = 1.2 \text{ cm}$. If the length of the tree house in the drawing is 4.5 cm, what is the actual length of the tree house?

- 3) The distance between Birmingham and London is 12 cm on an interactive map. Calculate the actual distance between Birmingham and London.

Birmingham Marathon is used to design the map, calculate the actual distance between Birmingham and London.

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- 4) The captain of the ship planned to sail from London to Birmingham. The distance between the two marinas is shown on the same distance is shown on the nautical map.

London to Birmingham is 65 km. On the map, the distance depicted on the map is 1.3 cm.

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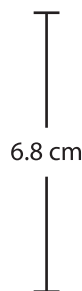
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- 5) Scale factor : 1 cm = 10 m

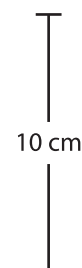
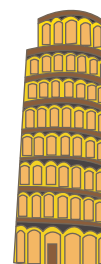
10 cm = 5.8 m

Model



Actual height of the tree = _____

Model



Actual height of the Leaning Tower of Pisa = _____