

QT Scale Drawings and Maps

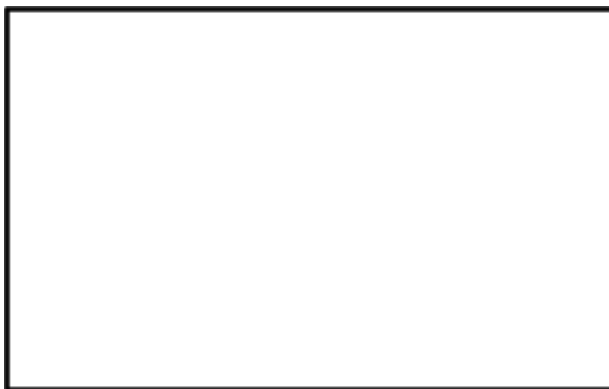


1. Xavier is making a model car using a scale of 1:20.

(a) The length of the model car is 8cm. Work out the length of the real car. Give your answer in metres. (2 marks)

(b) The width of the real car is 1.2m. Work out the width of Xavier's model. Give your answer in cm. (2 marks)

2. Here is a scale drawing of Josh's garden. He would like to cover the garden using concrete paving slabs. Each slab is 50cm x 50cm. How many slabs will Josh need to completely cover the garden? (3 marks)



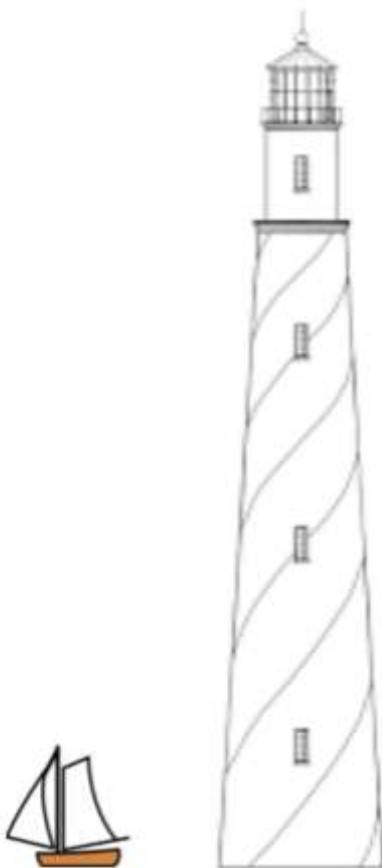
1cm = 2m

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3. A map has a scale of 1 : 40000. The distance between two points on the map is 6cm. Work out the real distance between the two points. Give your answer in kilometres.
(3 marks)

4. The accurate scale drawing shows a lighthouse and a small boat. The small boat has a real height of 6m. Find an estimate for the real height of the lighthouse. Give your answer in metres.
(3 marks)



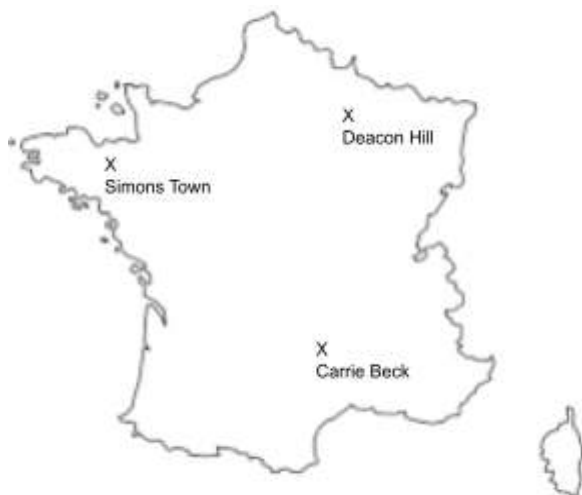
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5. A model ship has a length of 15cm. The scale of the model is 1 : 450. Work out the length of the real ship. Give your answer in metres. (2 marks)

6. The map is drawn to a scale of 1 : 500 000 and shows three towns: Simons Town, Deacon Hill and Carrie Beck. John drives from Simons Town to Deacon Hill, and then from Deacon Hill to Carrie Beck.

(a) Calculate the real distance from Simons Town to Deacon Hill.. Give your answer in kilometres. (2 marks)



(b) Calculate the total distance that John drives. Give your answer in kilometres. (2 marks)

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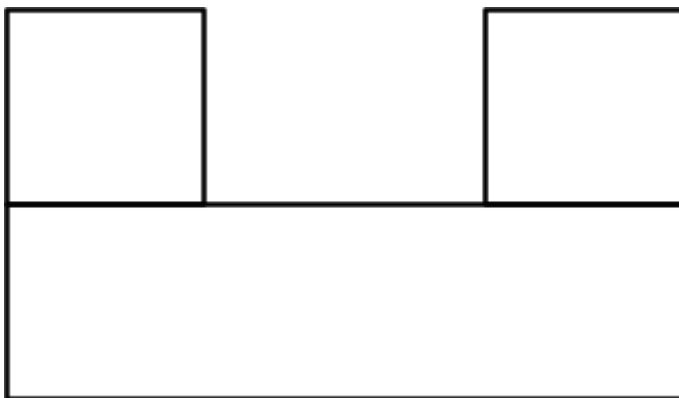


7. Draw a scale drawing of a room 4m x 2m. Use a scale of 1cm = 0.5m.

(2 marks)

8. Calculate the real perimeter of this shape. Give your answer in metres.

(3 marks)



Scale 2cm = 5m

Total

/ 24 marks