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SCALE DRAWING

We cannot draw to full scale maps, plans for houses, etc. The plan for a house is drawn on a blue print according to scale. These scale drawings use small units of measurement to represent larger units. Therefore 1 cm on a blueprint could represent 500 m. This is usually referred to as 1: 500. On a map it could be 1: 100,000

Exercises

Barry wants to draw a scale drawing of a pyramid with a base of 750 feet. He will use the scale 1 inch: 150 ft. What will be the base length of the drawing of the pyramid?

The actual base length of the pyramid = 750 ft

The pyramid is scaled down to the ratio 1 in : 150 ft

Therefore the scaled base length of the pyramid =

Answer = _____.

1. An architect is doing a scale drawing of a house on a piece of land. The base length of the house is 1500 feet. The architect will use the scale 1 cm: 100 feet. What is the scale base length of the house?

Answer = _____.

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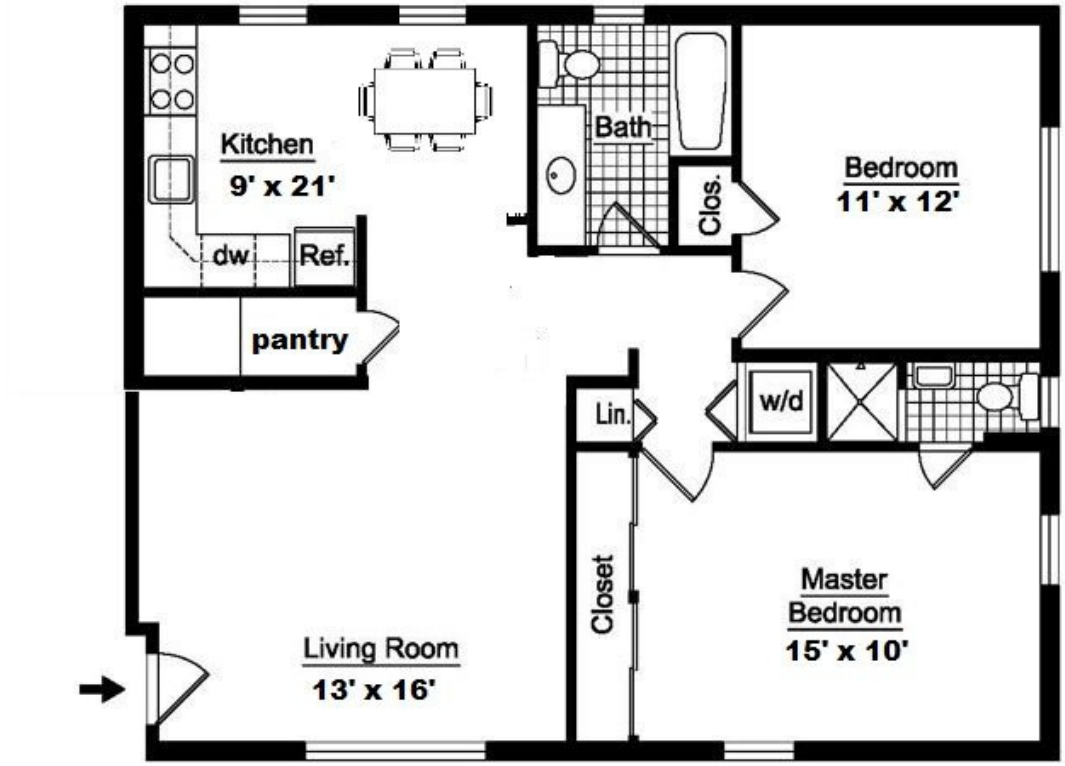
2. 

The distance from the Police Station to the Barber Shop is according to the scale 2.14 inches. If the map is drawn to a scale of 1 inch to 100 metres, what is the actual distance of the Barber Shop from the Police Station?

Answer = _____

3. Below is a floor plan for a house. The scale on the blueprint is 1 cm to 2 m.

Calculate the actual dimensions of the rooms.



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Answers:

a) Kitchen 9′ x 21′

Actual size is

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b) Living room 13′ x 16′

Actual size is

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c) Bedroom 11′ x 12′

Actual size is

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d) Master Bedroom 15′ x 10′

Actual size is

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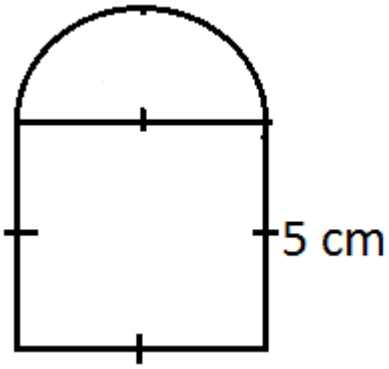
4. The plan for a window shows sides of 5 cm. Calculate the actual side of the window.
Scale: 1 cm: 12 m



Answer = Actual side of the window _____

5. A model aircraft was made using a scale of 1 cm to 5 m. If the model had a wingspan of 12.5 cm, what is the actual length of the wingspan of the aircraft?

Answer= _____