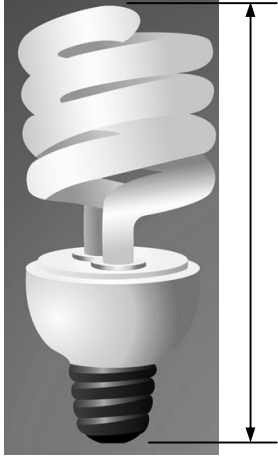


Scale Drawing

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Measure the lengths in mm, using the arrowed length. Write the length in the 'image' box below. Apply the scale to find the actual length. Multiply by the second number in the ratio, divide by the first.

1 Scale = 1 : 2



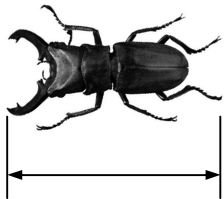
2 Scale = 1 : 660



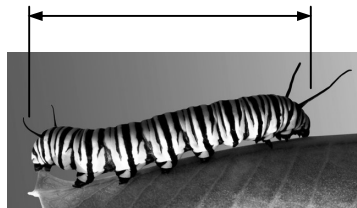
3 Scale = 9 : 1



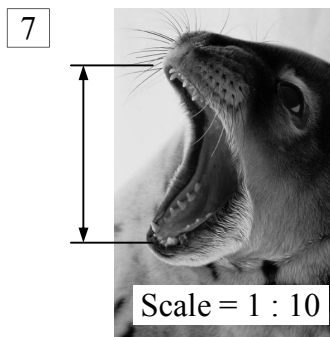
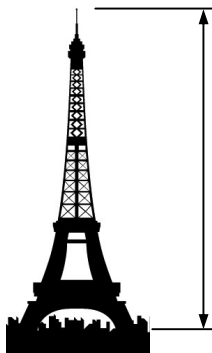
4 Scale = 3 : 2



5 Scale = 5 : 3



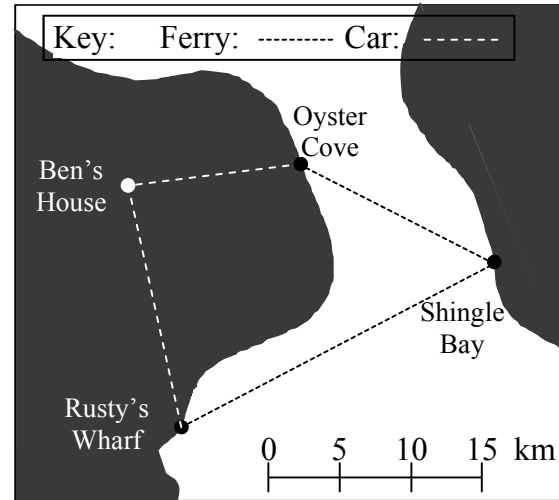
6 Scale = 1 : 7 200



Scale = 1 : 10

Q	Image Length (mm)	Actual Length (mm)
1		
2		mm = m
3		
4		
5		mm = cm
6		mm = m
7		mm = cm

Ben drove from Rusty's Wharf to Oyster Cove, while Tim caught the ferry. Use the scale to answer these questions.

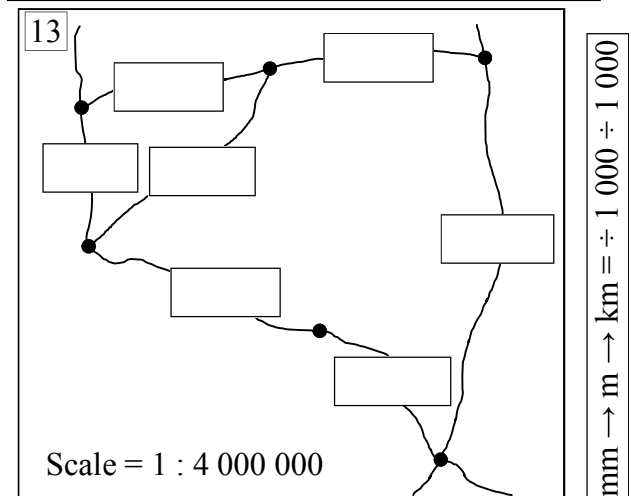


Find the distance in km between:

- 8 Rusty's Wharf and Shingle Bay _____
- 9 Shingle Bay and Oyster Cove _____
- 10 Rusty's Wharf and Ben's House _____
- 11 Ben's house and Oyster Cove _____
- 12 The ferry averages 20 km/h (5 km in 15 min), and it stops at all wharves for 10 min. Complete the time table below.

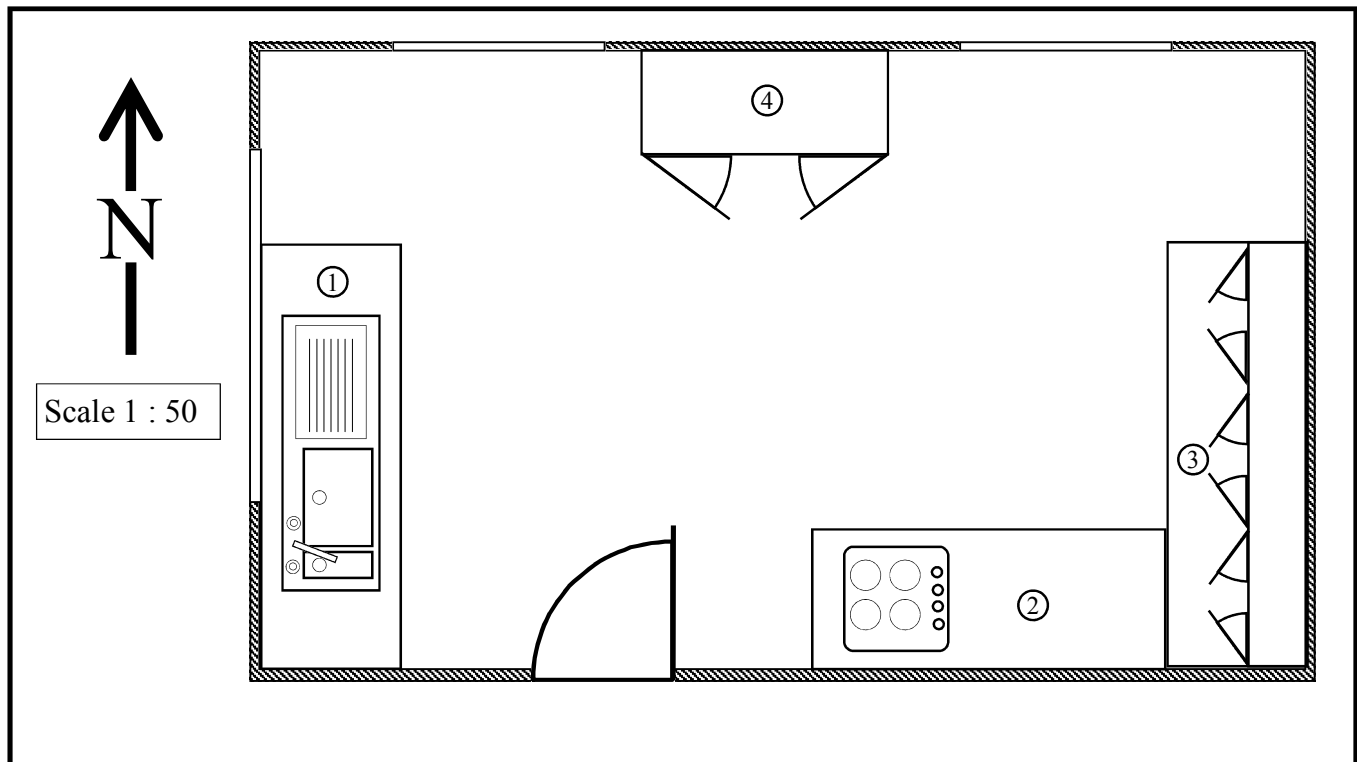
Location	Arrives	Departs
Rusty's Wharf	12.25 pm.	
Shingle Bay		
Oyster Cove		

Measure straight lengths in mm (ignore curves). Use the scale, then write the distances (km) in the boxes.



Scale Diagrams - Construction Plan Views

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Get out your ruler and measure lengths in cm, to the nearest 0.5 cm. Then use the scale to find the actual length and answer the questions. Round to 2 d.p.

1 The length of the eastern wall (in m). _____

2 The length of the northern wall (in m). _____

3 The floor area (empty) of the room (m²). $A = lb$
 $= \square \times \square$
 Length = m Breadth = m $A = \square \text{ m}^2$

4 The length, breadth and floor area of the pantry ④
 Length = m _____
 Breadth = m _____

5 The length, breadth and floor area of the sink bench ①
 Length = m _____
 Breadth = m _____

6 The length, breadth and floor area of the cook-top bench ②
 Length = m _____
 Breadth = m _____

7 The length, breadth and floor area of the cupboards ③
 Length = m _____
 Breadth = m _____

8 Find the total covered floor area. = ① + ② + ③ + ④

9 Find the total uncovered floor area.

10 Estimate the cost of tiling the uncovered floor area when tiles cost \$35/m². Available in whole m² only.

11 If the pantry ④ is 2 m tall, calculate the wall area it occupies.
 Height = m _____
 Width = m _____

12 There are three windows in the plan, if they are all 1.2 m high, find the total window area in the room.

Sink Window	Northern Wall Windows	Total
_____	_____	_____
_____	_____	_____
_____	_____	_____