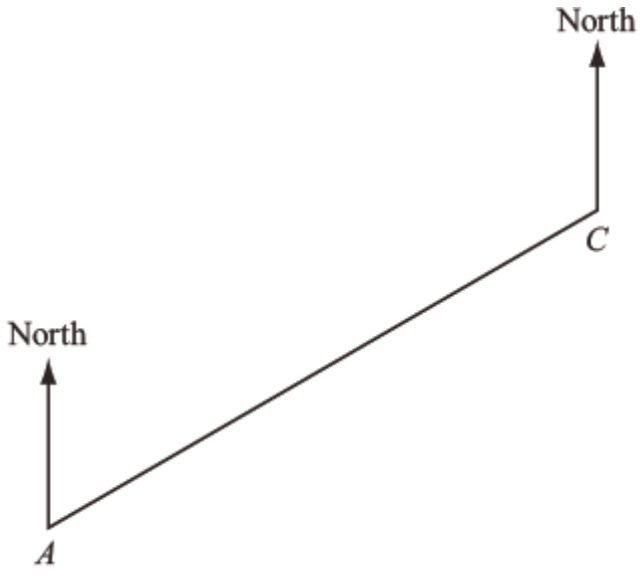


1. Scale of a map is 2cm to 3km
   Work out the scale of the map in the form 1 : n. [2]

2. Distance between Hamilton (H) and Tauranga (T) is HT = 90 km
   On a map the distance representing HT is 4.5cm.
   The scale of the map is 1 : n.
   Calculate the value of n. [2]

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3. The scale drawing shows the positions of two towns A and C on a map.
   On the map, 1 centimetre represents 20 kilometres.
   (a) Find the distance in kilometres from town A to town C [2]
   (b) A lake on the map has an area of 0.15 cm^2.
   Work out the actual area of the lake [2]





4. The scale of a map is 1 :500 000 .

(a) The actual distance between two towns is 172 km.
Calculate the distance, in centimetres, between the towns on the map. [2]

(b) The area of a lake on the map is 12 cm^2.
Calculate the actual area of the lake in km^2. [2]

5. The scale on a map is 1: 20 000.

(a) Calculate the actual distance between two points which are 2.7 cm apart on the map.
Give your answer in kilometres. [2]

(b) A field has an area of 64 400 m^2 .
Calculate the area of the field on the map in cm^2 . [2]

6. The scale of a map is 1 :250 000.

(a) The actual distance between two cities is 80 km.
Calculate this distance on the map. Give your answer in centimetres. [2]

(b) On the map a large forest has an area of 6 cm^2.
Calculate the actual area of the forest.
Give your answer in square kilometres. [2]

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7. On a map with scale 1 : 25000, the area of a lake is 33.6 square centimetres.
Calculate the actual area of the lake, giving your answer in square kilometres. [2]

8. The scale of a map is 1 : 10 000000.
On the map, the area of Slovakia is 4.9cm^2.
Calculate the actual area of Slovakia.
Give your answer in square kilometres. [3]

9. The scale on a map is 1 : 20 000.
The area of a lake on the map is 1.6 square centimetres.
Calculate the actual area of the lake.
Give your answer in square metres. [3]

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10. A map is drawn to a scale of 1 : 1000000.
    A forest on the map has an area of 4.6cm^2.
    Calculate the actual area of the forest in square kilometres. [2]

11. The scale on a map is 1 : 50000.
    The area of a field on the map is 1.2 square centimetres.
    Calculate the actual area of the field in square kilometres [2]

12. The scale of a map is 1:20 000.
    On the map the area of a lake is 60cm^2.
    Calculate the actual area of the lake,
    giving your answer in square kilometres. [3]

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13. A map has a scale of $1:200000$.
Find the area, in square kilometres, of a
lake that has an area of $12.4\ \text{cm}^2$ on the map. [2]

14. A lake has an area of 3km^2.
On a map the area of the lake is 18.75cm^2.
Find the scale of the map in the form 1 : n. [3]

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Answers

1) 1 : 150000	2) 2000000	3) (a)142 to 150 (b) 60
4) (a) 34.4 (b)300	5) (a) 0.54 (b) 1.61	6) (a) 32 (b)37.5
7) 2.1	8) 49 000	9) 64 000
10) 460	11) 0.3	12) 2.4
13) 49.6	14) 40000	