Scale diagrams and maps

(1) The scale on a map is 1 : 50 000.

Two towns are 10 cm apart on the map.

What is their actual distance apart?
Give your answer in km. (2 marks, ★)

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(2) A map is drawn to a scale of 1 : 40 000. Find the actual length, in km, of a straight road of length (★)

a 2.3 cm (1 mark)   b 3 mm (1 mark)

Multiply each of these lengths by 40 000 and then change the units.

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[Total: 2 marks]

(3) On a scale drawing of a garden, the length of a path whose actual distance is 40 m is 5 cm. Find the scale of the drawing in the form 1 : n where n is an integer. (3 marks, ★★)

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(4) The map shows a port and a gas rig.

The actual distance from the port to the gas rig is 12 km.

By taking a measurement from the map, work out the scale of the map.

Give your answer in the form 1 : n where n is an integer. (3 marks, ★★)

gas rig
X

port ●

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