

**Question 1:** A map has a scale 1:250  
A straight road is 2 cm long on the map. What is the length of road? \_\_\_\_\_

**Question 2:** A different map shows another straight road. The scale factor is 1:500  
The road is 2000m long. How long is the line on the map in cm? \_\_\_\_\_

**Question 3:** This question is about a drawing of a box – Complete the table below

	Scale factor	Dimensions on paper	Actual dimensions	Linear or not?
Length of a box	1:20	3cm	_____ cm	
Width of box	1:20	_____ cm	1 meter	

**Question 4:** This question is about a drawing of a house – Complete the table below

	Scale factor	Dimensions on paper	Actual dimensions	Linear or not?
Living room wall	1:60	10cm	Meters	
Kitchen window	1:60	_____ cm	3 meters	

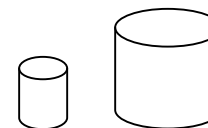
**Question 5:** This question is about a map – Complete the table below

	Scale factor	Dimensions on paper	Actual dimensions	Linear or not?
Town A to B	1:500	3cm	Km	
Town C to D	1:500	_____ cm	4km	

**Question 6:** This question is about a product design for a car – Complete the table below

	Scale factor	Dimensions on paper	Actual dimensions	Linear or not?
Length of car		3cm	3m	
Width of car		2cm		

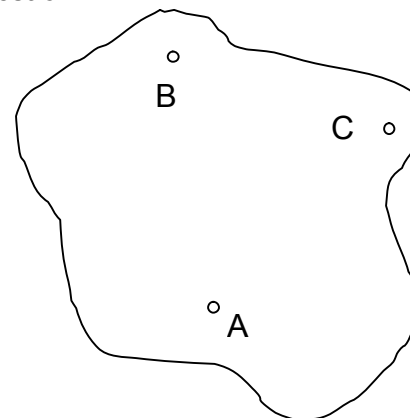
**\*Extension\***



2 similar cylinders A and B are shown

Length of radius A	5cm	Length of radius B	25cm
Area of A		Area of B	7850cm <sup>2</sup>
Volume of A	785cm <sup>3</sup>	Volume of B	

**Question 7**



1cm: 1.2km

The map shows the towns A, B and C  
Fill in the box below

Distance from A – B	Distance from A – C	Distance from C – B	<b>A star *Extension*</b> Angle BAC without using a protractor	<b>A star *Extension*</b> Area of Triangle ABC
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**Question 8:** Fill out the boxes below being very careful to study the units

<b>1:300</b> 4cm = _____ km	<b>1:150</b> 1m = _____ km	<b>1:30</b> _____ cm = 600m	<b>1:25</b> _____ mm = 400m
<b>1:20</b> 10m = _____ cm	<b>1:10</b> 3cm = _____ m = _____ km	<b>1:4</b> 1km = _____ m	<b>2:4</b> 6km = _____ cm