Non-Calculator

Q1.

Here is a map of France.



Scale: 1 cm represents 80 km

(a) What is the three-figure bearing of Lyon from Bordeaux? Circle your answer.

005° 085° 095° 175°

(1)

(b) Work out the actual straight-line distance from Paris to Marseille.

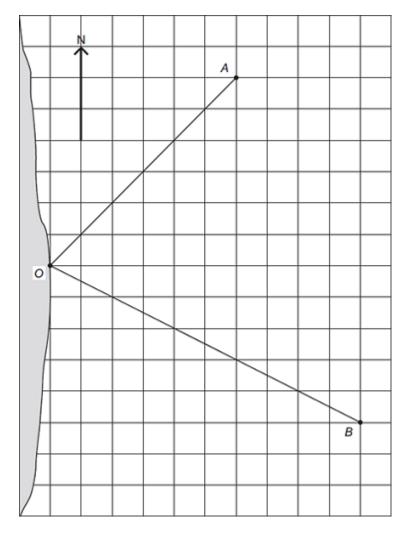
Answer____km

(2)

(Total 3 marks)

The map shows the positions of two ships A and B, and a port O.

Scale: 1 cm represents 10 km



(a)) Shi	pAis	North-	East o	f O).
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What is the **three-figure** bearing of North-East?

Answer	Ü	
		(1)

(b) Ship A sails directly to O.

In which direction does it travel?

Answer		
		(1)

(c) Measure the bearing of ship *B* from *O*.

Answer	0	
		(1)

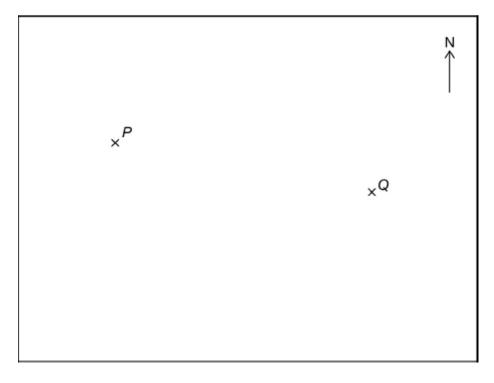
(d)	How far is ship	B from O?			
		Answer		km	
				(Total 5 ma	(2) (rks
Q3.					
	many degrees d e your answer.	oes the hour hand on	a clock turn in 9 hours?		
	45°	270°	540°	3240°	
				(Total 1 m	ark)

Calculator

Q4.

Here is a map showing two towns, *P* and *Q*.

Scale: 1 cm represents 50 km



(a) Work out the **actual** distance between towns *P* and *Q*.

Answer _____ km

(b) Town R is 200 km due South of town P.

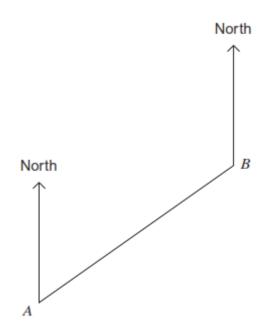
Mark R on the map.

(2) (Total 4 marks)

(2)

Q5.		
(a)	The scale on a map is 1 : 250 000	
	What is the actual distance represented by 1 centimetre? Give your answer in kilometres.	
	Answer	km
(b)	The scale on a different map is 1 inch represents 4 miles. A road on the map measures 6 inches to the nearest inch.	
	What is the shortest possible distance of the road?	
	Answer	
		(3) (Total 6 marks)
		,,

A and B are two towns.



(a) Measure the bearing of B from A.

Answer	0	
		(1)

(b) Natasha says, "To work out a bearing in the opposite direction,

add 180° to the original bearing."

Use your answer to part (a) and Natasha's method to work out the bearing of ${\cal A}$ from ${\cal B}.$

Answer	•

(c) Give a reason why Natasha's method can only be used for bearings up to 180°.

(Total 4 marks)

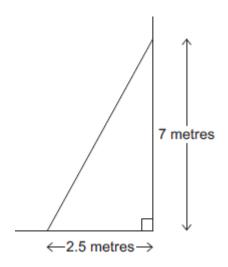
(2)

(1)

Q7.

(a) The diagram shows a sketch of a ladder on horizontal ground against a vertical wall

Not drawn accurately



Make an accurate scale drawing. The horizontal ground has been drawn for you. Use a scale of 1 cm to represent 1 metre.

(2
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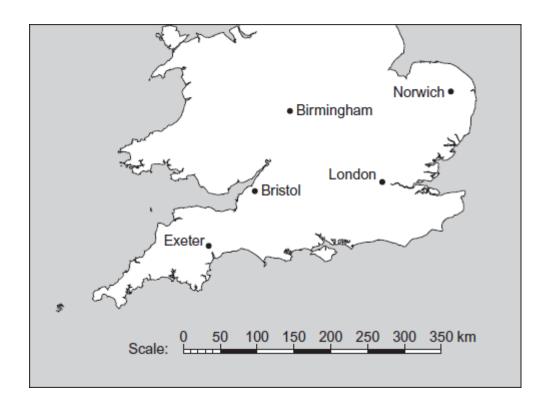
(b) Use your drawing to work out the actual length of the ladder.

Answer _____ metres

(1)

(Total 3 marks)

Q8.

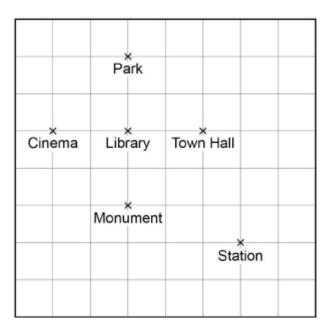


e your answer in kilometres.	
Answer	km
	(Total 3 ma

Here is a map of a town.

Scale: 1 cm represents 200 m

North



(a) Which place is exactly North West of the Station? Circle your answer.

Cinema Town Hall Library Monument

(1)

(b) Circle the three-figure bearing of the Monument from the Park.

090° 180° 270° 360°

(1)

(c) What is the distance, in metres, from the Cinema to the Station?

Answer _____ metres

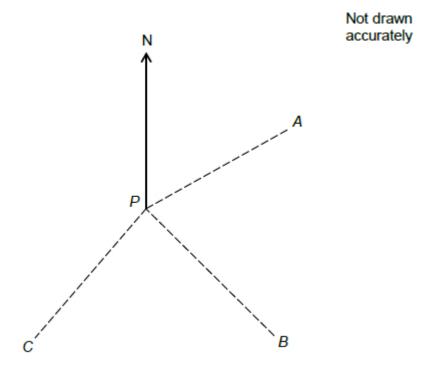
(3)

(d)	Why might the shortest walking distance from the Cinema to the Stathan your answer to part (c)?	ation be greater
		(1)
		(Total 6 marks)
Q10.		
	a map the distance between two towns is 6 cm. actual distance is 1.2 km	
Wor	rk out the scale of the map as a ratio in its simplest form.	
	Answer	
		(Total 3 marks)

Q11.

Ali (A), Bayo (B) and Carly (C) start walking from P at the same time. They all walk at 4 mph.

Ali walks on a bearing of 075° Bayo walks on a bearing of 165° Carly walks on a bearing of 230°



(a) How long does it take Ali to walk 1 mile?

Give your answer in minutes.

Answer _____ minutes

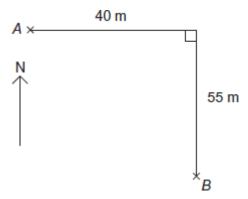
(1)

)	Bayo says,	
	"After 1 hour Ali and Carly will have walked 4 miles each, 4 miles + 4 miles equals 8 miles, so they are 8 miles apart."	
	Is he correct? Tick a box.	
	Yes No	
	Give a reason for your answer.	
)	Who is closer to Bayo after 1 hour? Tick a box.	(1
	Ali Carly	
	You must show your working.	
		. (2
	(Total 5	

Q12.

The diagram shows two points *A* and *B*.

Not drawn accurately



Work out the bearing of *B* from *A*.

Answer _____

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(Total 4 marks)