

FOR OFFICIAL USE

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F

KU RE

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Total Marks

2500/401

NATIONAL
QUALIFICATIONS
2010

WEDNESDAY, 5 MAY
9.00 AM – 9.20 AM

MATHEMATICS
STANDARD GRADE
Foundation Level
Paper 1
Non-calculator

Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Date of birth

Day Month Year

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Scottish candidate number

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Number of seat

- You may NOT use a calculator.**
- Answer as many questions as you can.
- Write your working and answers in the spaces provided. Additional space is provided at the end of this question-answer book for use if required. If you use this space, write clearly the number of the question involved.
- Full credit will be given only where the solution contains appropriate working.
- Before leaving the examination room you must give this book to the Invigilator. If you do not, you may lose all the marks for this paper.



Marks

KU RE

4. A bottle holds 175 millilitres of cod liver oil.



Billie takes one 5 millilitre spoonful each day.
How many days will the bottle last?

WORKING

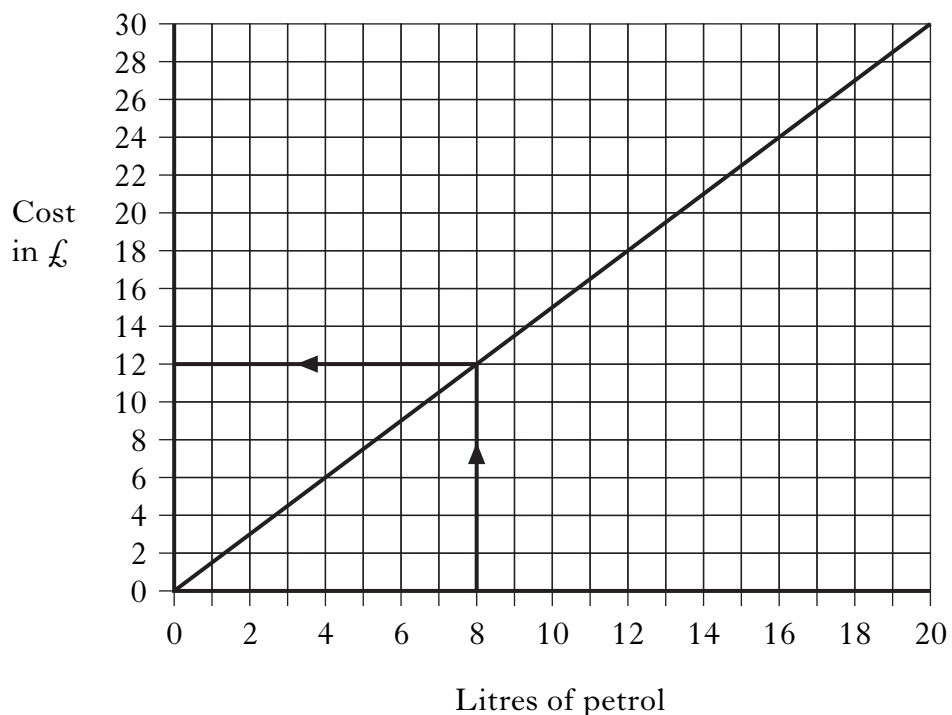
ANSWER

days

2

	KU	RE
1		
3		

7. The line graph can be used to find the cost of buying petrol.



The graph shows that 8 litres of petrol cost £12.

(a) A motorist paid £24 for petrol.

How many litres did he buy?

ANSWER		litres
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1

(b) Find the cost of 36 litres of petrol.

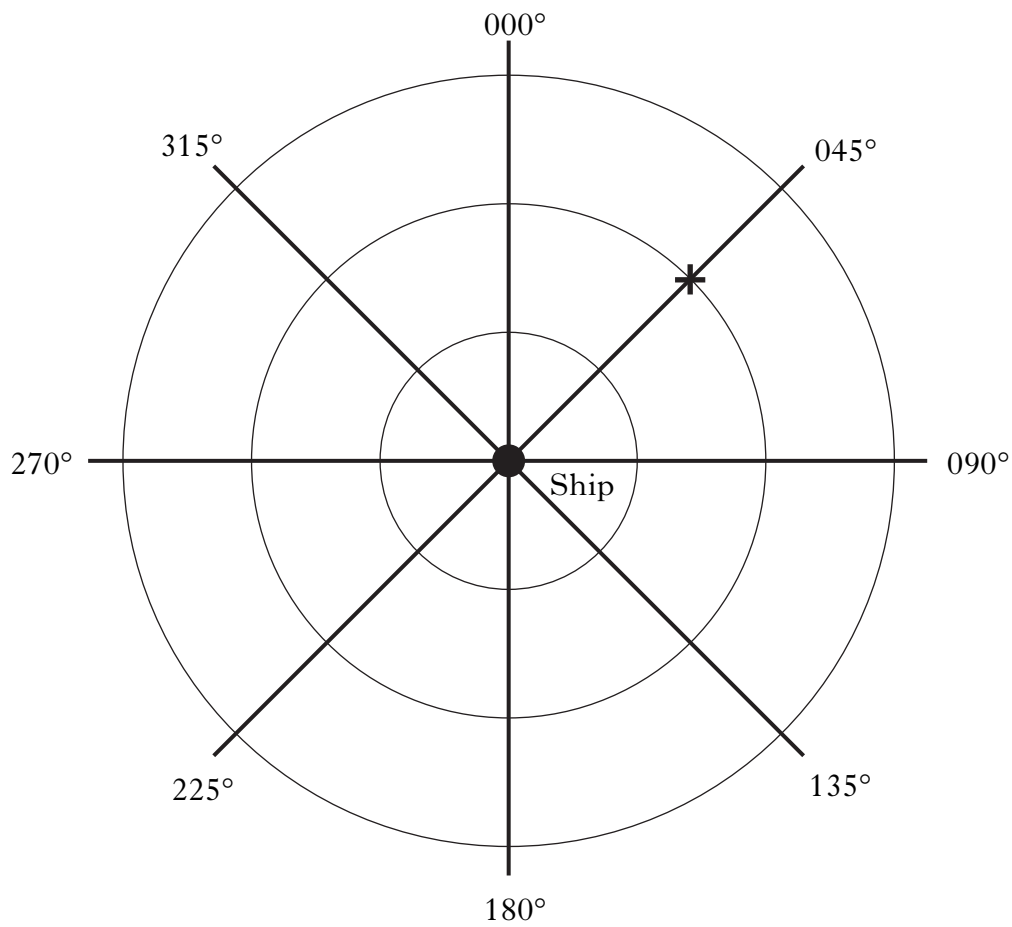
WORKING		
ANSWER		£

3

Marks

KU	RE

8. The diagram shows the radar screen on a ship.
The circles are 20 kilometres apart.



The cross (+) shows the position of a submarine

- on a bearing of 045°
- 40 kilometres from the ship.

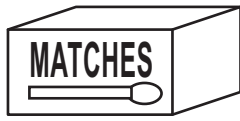
Mark a cross on the diagram to show the position of another submarine

- on a bearing of 270°
- 20 kilometres from the ship.

2

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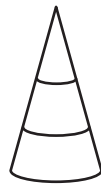
9. In the tie-breaker round of a competition, points are awarded for correctly naming the 3-dimensional shapes shown below.



1 point



2 points







3 points







4 points

A wrong answer is awarded 0 points.

Here are the answer sheets for Team A and Team B.

TEAM A		
Shape	Name	Points
	<i>cylinder</i>	0
	<i>cuboid</i>	
	<i>cone</i>	
	<i>sphere</i>	

TEAM B		
Shape	Name	Points
	<i>cuboid</i>	1
	<i>cylinder</i>	
	<i>cone</i>	
	<i>circle</i>	

9. (continued)

Marks

KU	RE
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By completing the answer sheets, find out which team won the competition.

You must give a reason for your answer.

WORKING	
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ANSWER INCLUDING REASON	
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4		

[END OF QUESTION PAPER]