

Surname
First name(s)

Centre Number

Candidate Number
0

**REVISE**  
.wales

**GCSE**

R.WM-MNF-U1-001

**MOCK PAPER A**



R.WM-MNF-U1-001

**MATHEMATICS AND NUMERACY  
(DOUBLE AWARD)  
UNIT 1: FINANCIAL MATHEMATICS AND  
OTHER APPLICATIONS OF NUMERACY  
FOUNDATION TIER**

1 hour 30 minutes

**ADDITIONAL MATERIALS**

A calculator will be required for this examination.

A ruler, a protractor and a pair of compasses may be required.

**INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** the questions in the spaces provided.

If you run out of space, use the additional page at the back of the booklet. Question numbers must be given for all work written on the additional page.

Take  $\pi$  as 3.14 or use the  $\pi$  button on your calculator.

**INFORMATION FOR CANDIDATES**

You should give details of your method of solution when appropriate.

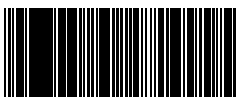
Unless stated, diagrams are not drawn to scale.

Scale drawing solutions will not be acceptable where you are asked to calculate.

The number of marks is given in brackets at the end of each question or part-question.

In question 5, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.

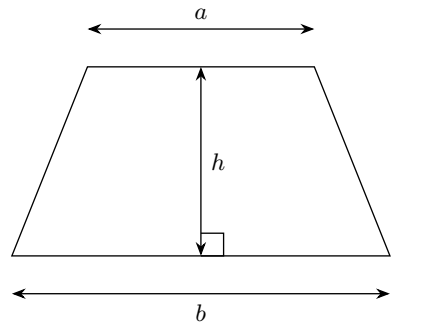
For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	5	
2.	8	
3.	6	
4.	6	
5.	8	
6.	6	
7.	8	
8.	9	
9.	9	
<b>Total</b>	<b>65</b>	



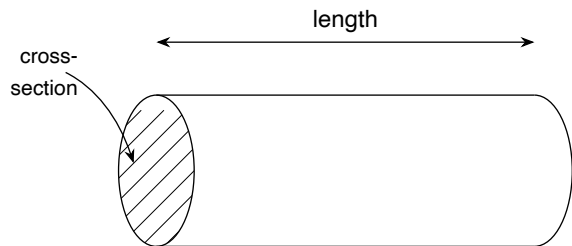
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### Formula List – FOUNDATION TIER

**Area of trapezium** =  $\frac{1}{2}(a + b)h$

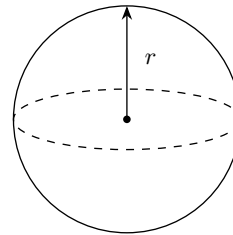


**Volume of prism** = area of cross-section  $\times$  length



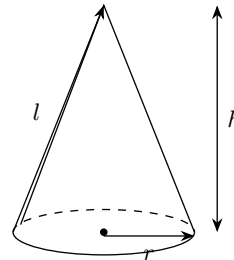
**Volume of sphere** =  $\frac{4}{3}\pi r^3$

**Surface area of sphere** =  $4\pi r^2$



**Volume of cone** =  $\frac{1}{3}\pi r^2 h$

**Curved surface area of cone** =  $\pi r l$

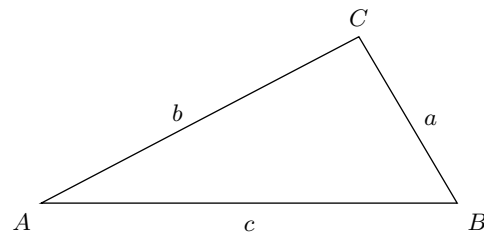


**In any triangle ABC**

**Sine rule**  $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

**Cosine rule**  $a^2 = b^2 + c^2 - 2bc \cos A$

**Area of triangle** =  $\frac{1}{2}ab \sin C$



**The Quadratic Equation**

The solutions of  $ax^2 + bx + c = 0$  where  $a \neq 0$  are given by

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

**Annual Equivalent Rate (AER)**

AER, as a decimal, is calculated using the formula  $(1 + \frac{i}{n})^n - 1$ , where  $i$  is the nominal interest rate per annum as a decimal and  $n$  is the number of compounding periods per annum.

1. (a) Calculate 35% of £ 240. [2]

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Answer = £ .....

(b) A box of cereal weighs 750 g. Calculate  $\frac{2}{5}$  of the weight of the box. [2]

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Answer = ..... g

(c) Write 7.4863 correct to 2 decimal places.

[1]

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Answer = .....



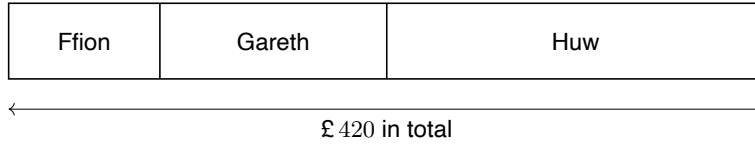




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Net pay = £ .....

4. (a) Three friends, Ffion, Gareth and Huw, share £420 in the ratio 2 : 3 : 5 [3]  
(Ffion : Gareth : Huw).  
Calculate how much each friend receives.



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Ffion = £ .....

Gareth = £ .....

Huw = £ .....









(b) Calculate the total amount in the account at the end of the 4 years. [2]

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Total = £ .....

Examiner only

RWMNF-U1-01

7. Part of a bus timetable from Cardiff to Newport is shown below.

Stop	Bus A	Bus B	Bus C
Cardiff Central	09:15	09:45	10:20
Newport Road	09:32	10:02	10:37
Rumney	09:48	10:18	10:53
Newport Bus Stn	10:05	10:35	11:10

- (a) Iwan needs to be in Newport Bus Station by 11:00. [2]  
Write down the latest time he can catch a bus from Cardiff Central.

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Latest time = .....

- (b) Calculate how long Bus B takes to travel from Cardiff Central to Newport Bus Station. [2]  
Give your answer in minutes.

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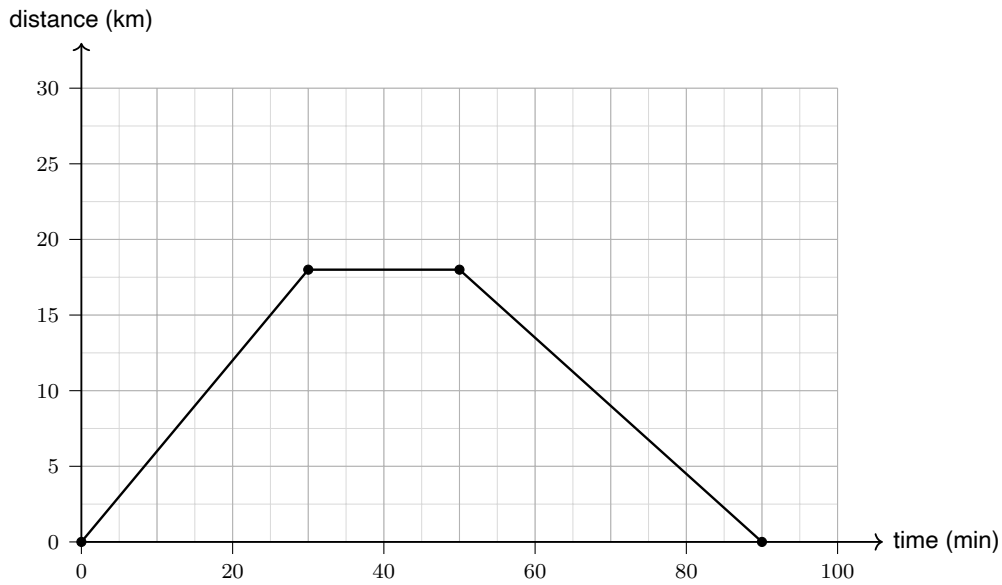
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Journey time = ..... minutes

The distance-time graph below shows the journey of a delivery van.



(c) Use the graph to answer the following.

(i) Write down how long, in minutes, the van was stationary. [1]

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Stationary for = ..... minutes

(ii) Calculate the average speed of the van on the outward leg (from 0 to 30 minutes), [3] in km/h.

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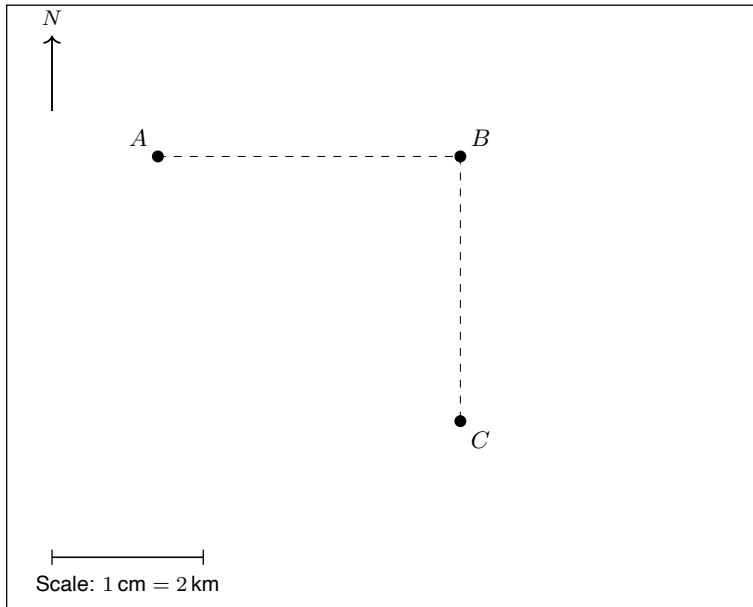
Outward speed = ..... km/h





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Total cost = £ .....

9. The map below shows the positions of three villages: Ashford (*A*), Bryn (*B*) and Capel (*C*). The map is drawn to a scale of 1 cm represents 2 km.



*Diagram not drawn to scale*

- (a) The distance from *A* to *B* on the map is 4 cm. [3]  
Calculate the real distance, in kilometres, from Ashford to Bryn.

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Real distance *AB* = ..... km



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