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**Pearson Edexcel Level 1/Level 2 GCSE (9–1)**

**Thursday 14 May 2026**

Morning (Time: 1 hour 30 minutes)

Paper reference **1MA1/1H**

**Mathematics**

**PAPER 1 (Non-Calculator)**

**Higher Tier**



**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, Formulae Sheet (enclosed). Tracing paper may be used.

Total Marks

## Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

## Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

## Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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**Answer ALL questions.**

**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

**1** Work out  $5.6 \times 3.4$

.....  
(Total for Question 1 is 3 marks)

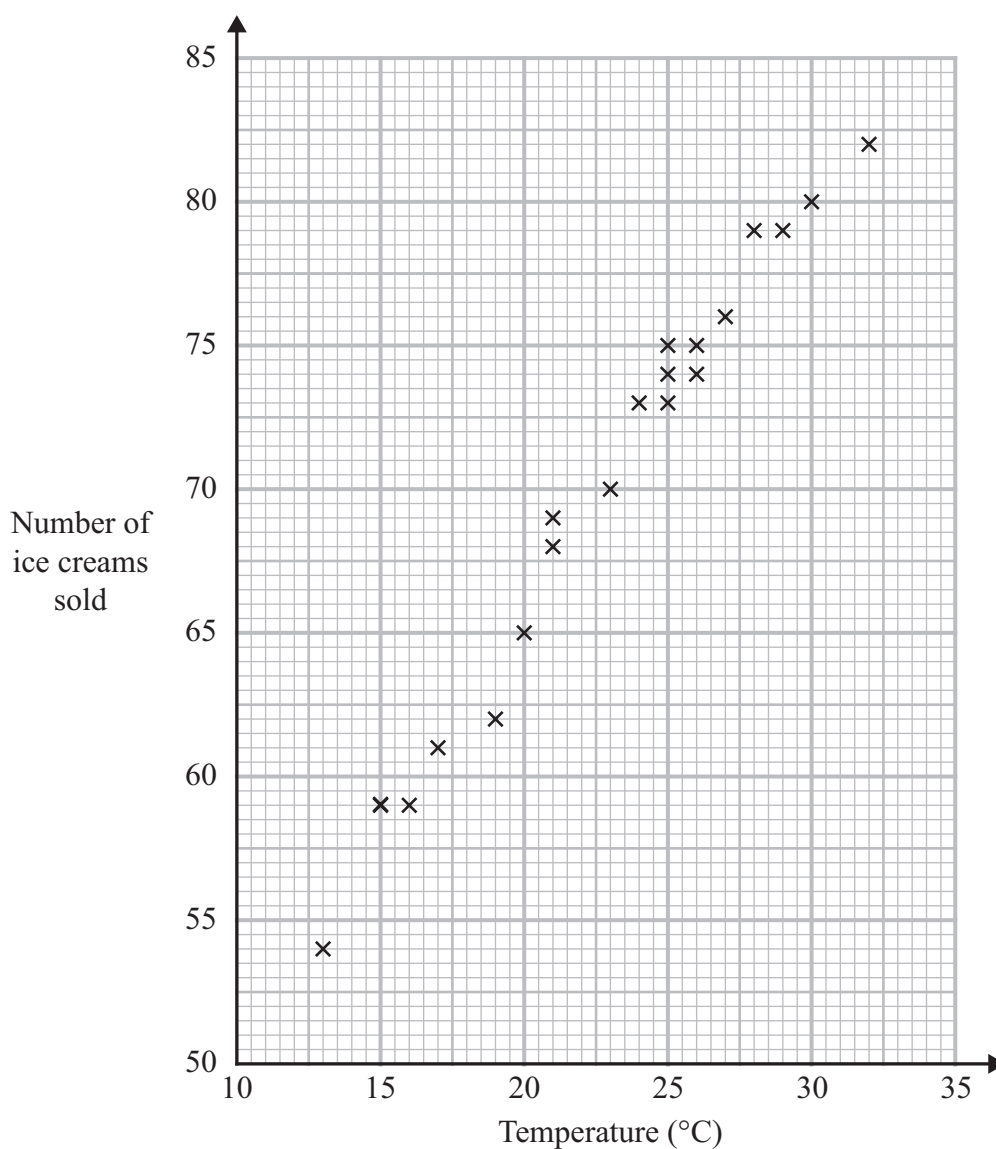
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- 2 The scatter graph shows information about the number of ice creams sold in a cafe and the temperature on each of 20 days.



- (a) Describe the relationship between the number of ice creams sold and the temperature.

(1)

On a different day, the cafe sold 71 ice creams.

- (b) Using the scatter graph, estimate the temperature on that day.

..... °C  
(2)

(Total for Question 2 is 3 marks)



- 3 In a bag there are only blue counters, green counters, red counters and yellow counters. A counter is taken at random from the bag.

The table shows the probability of taking each colour of counter.

| Colour      | blue | green | red | yellow |
|-------------|------|-------|-----|--------|
| Probability | 0.3  | 0.4   | 0.1 | 0.2    |

- (a) Work out the probability of taking a counter that is **not** green.

.....  
(1)

There are 90 blue counters in the bag.

- (b) Work out the total number of counters in the bag.

.....  
(2)

Hannah has a biased coin.

She throws the coin 10 times.

The coin lands on heads 7 times.

Hannah estimates the probability that the coin lands on heads as  $\frac{7}{10}$

- (c) Explain what Hannah could do differently to find a better estimate for the probability that the coin lands on heads.

.....  
.....  
.....  
(1)

(Total for Question 3 is 4 marks)



4 Here are the first five terms of an arithmetic sequence.

5      12      19      26      33

(a) Find an expression, in terms of  $n$ , for the  $n$ th term of this sequence.

.....  
(2)

The  $n$ th term of a different sequence is  $3 - 5n$

(b) Show that  $-42$  is a term of this sequence.

(2)

(Total for Question 4 is 4 marks)



5 3 workers take 15 hours to build 1 wall.

(a) How many hours will 5 workers take to build 4 of these walls?

..... hours  
(3)

(b) State one assumption you made in working out your answer to part (a).

.....  
.....  
.....  
(1)

(Total for Question 5 is 4 marks)



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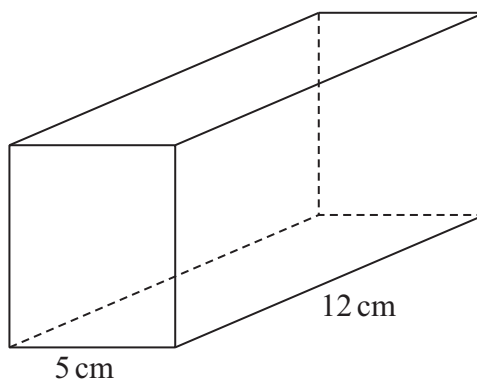
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6 Solve  $x^2 - 12x - 28 = 0$

.....  
(Total for Question 6 is 3 marks)



- 7 The diagram shows a solid cuboid.



The cuboid has a total surface area of  $324\text{ cm}^2$

Work out the volume of the cuboid.  
You must show all your working.

.....  $\text{cm}^3$

(Total for Question 7 is 5 marks)





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- 8 Lee buys a car for £7500  
He sells the same car for £9000  
Work out Lee's percentage profit.

.....%

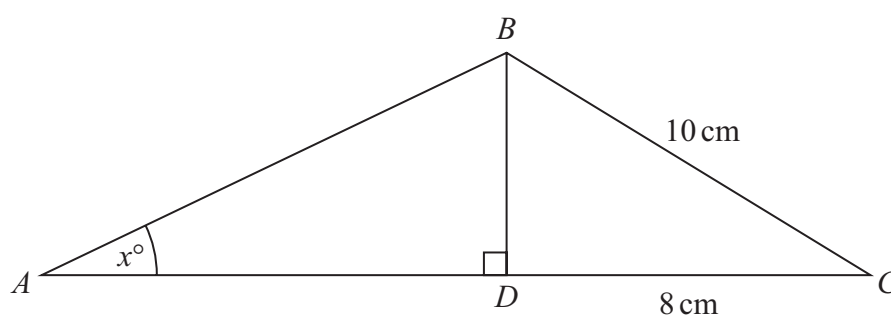
(Total for Question 8 is 3 marks)



- 9 (a) Write down the value of  $\sin 30^\circ$

(1)

The diagram shows two right-angled triangles,  $ABD$  and  $BCD$ .



$ADC$  is a straight line.

$$AC = 21\text{ cm}$$

- (b) Work out the value of  $\tan x^\circ$

(4)

(Total for Question 9 is 5 marks)



10 Aaran has some cards.

The cards are square or circular or triangular.

$$\begin{array}{ccccc} \text{number of} & & \text{number of} & & \text{number of} \\ \text{square cards} & : & \text{circular cards} & : & \text{triangular cards} \end{array} = 4 : 3 : 5$$

All of the square cards have a picture on them.

60% of the circular cards have a picture on them.

$\frac{2}{5}$  of the triangular cards have a picture on them.

Work out the fraction of the cards that have a picture on them.

(Total for Question 10 is 4 marks)



11 (a) Simplify  $\frac{24x^8y^5}{6xy^2}$

(2)

Florrie is asked to solve the equation  $\frac{4x-5}{6} + \frac{x+5}{3} = 9$

Here is her working.

$$\begin{aligned}\frac{4x-5}{6} + \frac{x+5}{3} &= 9 \\ \frac{4x-5}{6} + \frac{2x+5}{6} &= 9 \\ \frac{6x}{6} &= 9 \\ x &= 9\end{aligned}$$

Florrie's answer is wrong.

(b) What mistake has she made?

(1)

(Total for Question 11 is 3 marks)



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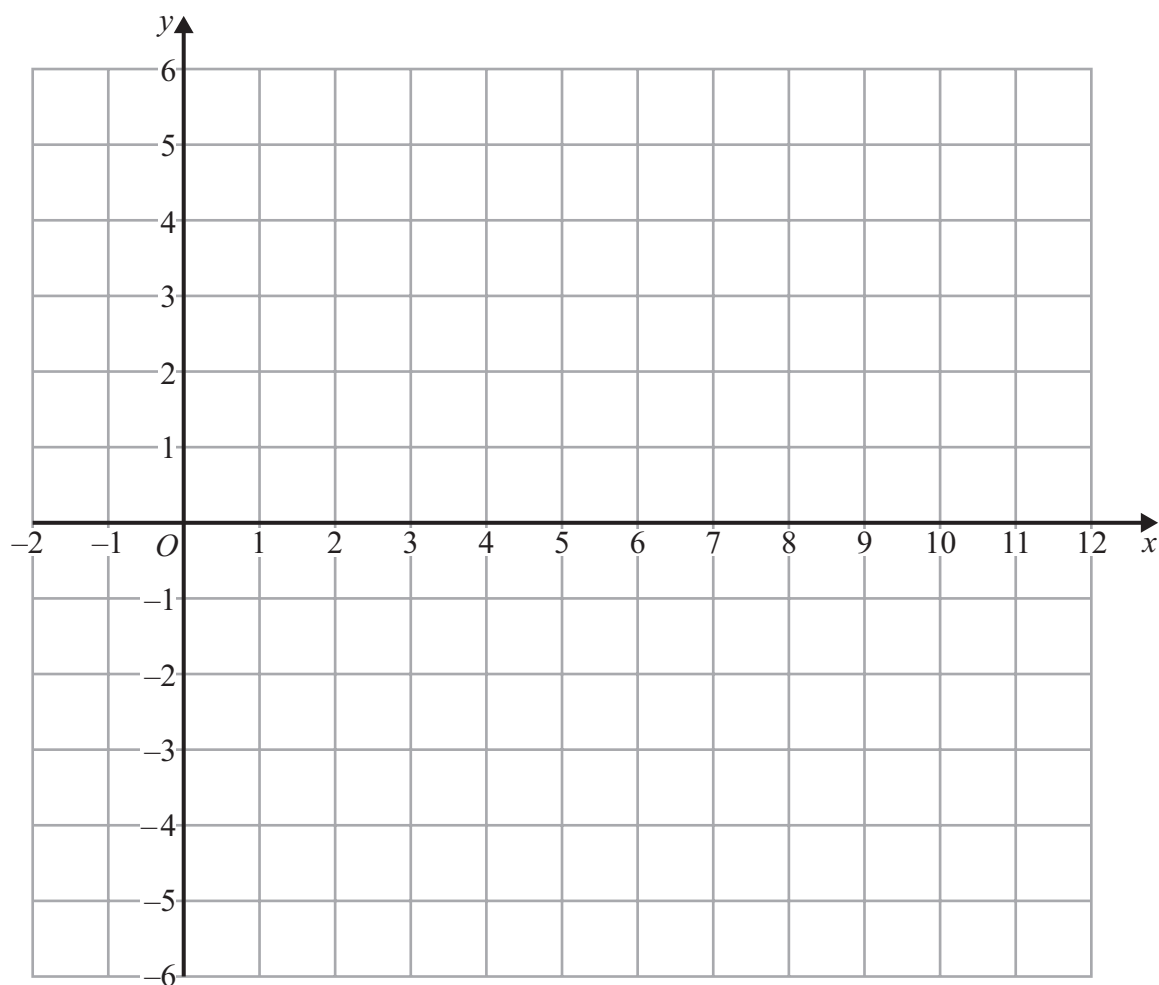
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12 On the grid, show by shading, the region that satisfies all of these inequalities.

$$y > 4 - 2x \qquad 2y - x > -2 \qquad y < 4$$

Label the region **R**.



(Total for Question 12 is 3 marks)



- 13 Express  $0.3\dot{4}\dot{6}$  as a fraction.  
You must show all your working.

(Total for Question 13 is 3 marks)

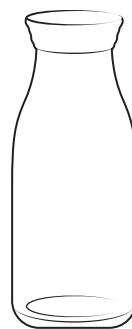
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14

**A****B**

**A** and **B** are two similar containers.  
Both containers are empty.

Container **A** has a surface area of  $40 \text{ cm}^2$   
Container **B** has a surface area of  $90 \text{ cm}^2$

A tap is flowing at a constant rate.  
The tap takes 48 seconds to fill container **A**.

How long will the tap take to fill container **B**?

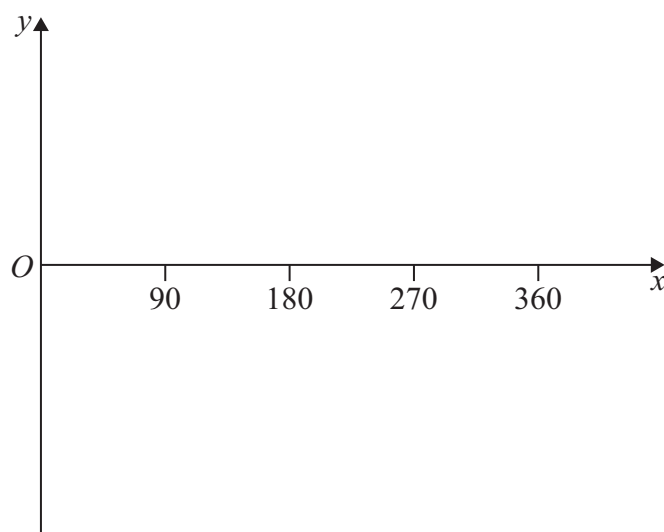
..... seconds

(Total for Question 14 is 4 marks)



P 7 9 4 7 3 A 0 1 5 2 4

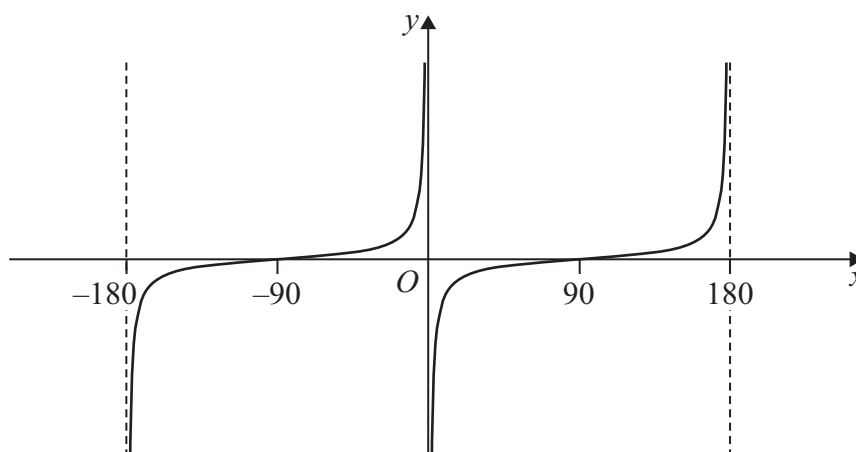
15 (a) Sketch the graph of  $y = \sin x^\circ$  for  $0 \leq x \leq 360$



(2)

Azra needs to sketch the graph of  $y = \tan x^\circ$  for  $-180 \leq x \leq 180$

Here is her sketch.



Azra's sketch is wrong.

(b) Explain why.

(1)

(Total for Question 15 is 3 marks)





- 16 Show that  $(x + 3)(2x - 1)(3x + 4)$  can be written in the form  $ax^3 + bx^2 + cx + d$  where  $a, b, c$  and  $d$  are integers.

(Total for Question 16 is 3 marks)

- 17 By completing the square, find the coordinates of the turning point of the curve with equation  $y = x^2 + 8x + 22$ . You must show all your working.

(....., .....)

(Total for Question 17 is 3 marks)



18 At the end of month  $n$ , the profit, in £, made by a company was  $P_n$

At the end of the next month, the profit made by the company was  $P_{n+1}$  where

$$P_{n+1} = kP_n$$

At the end of August the profit was £25 000

At the end of October the profit was £36 000

Find the value of the constant  $k$ .

$k =$  .....

(Total for Question 18 is 3 marks)

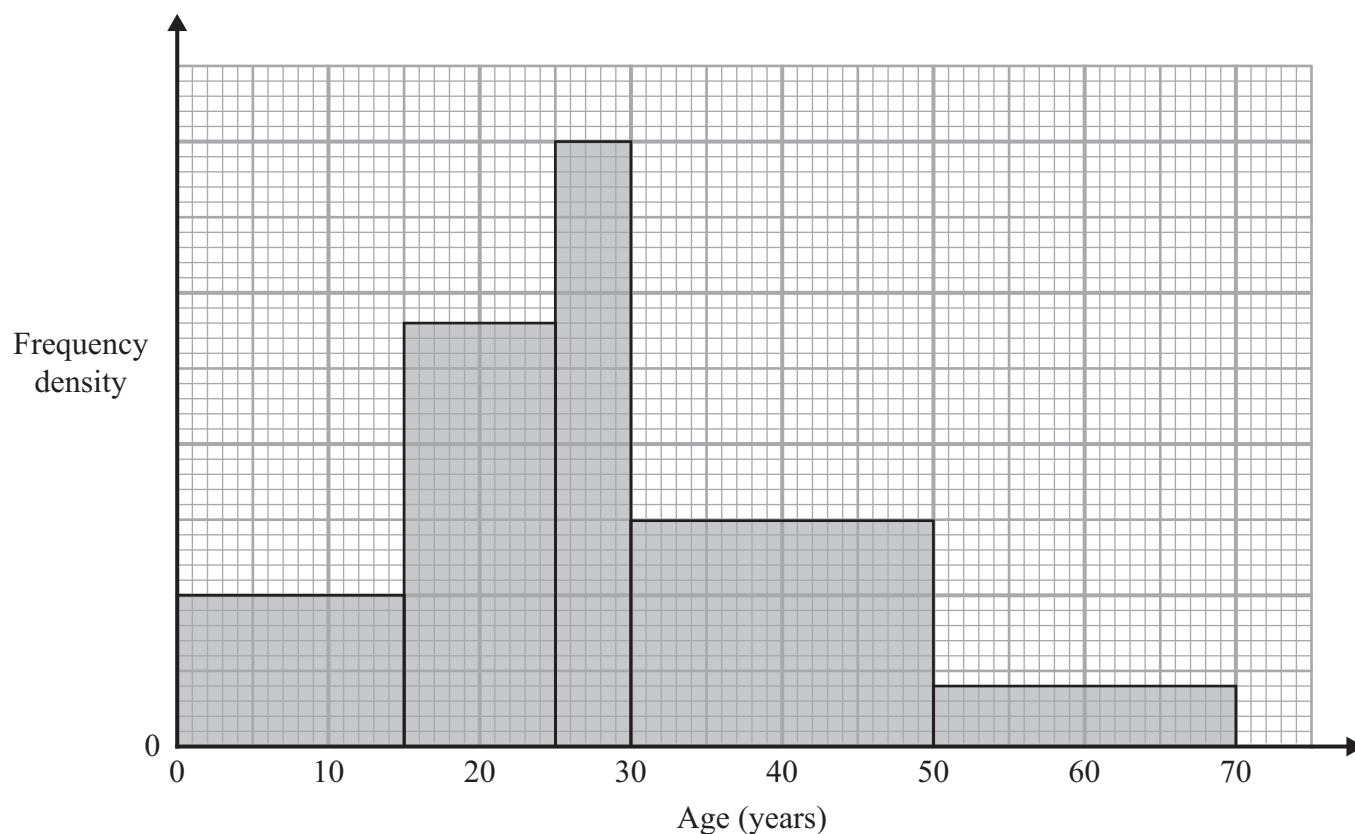


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19 The histogram shows information about the ages of all the people at a concert.



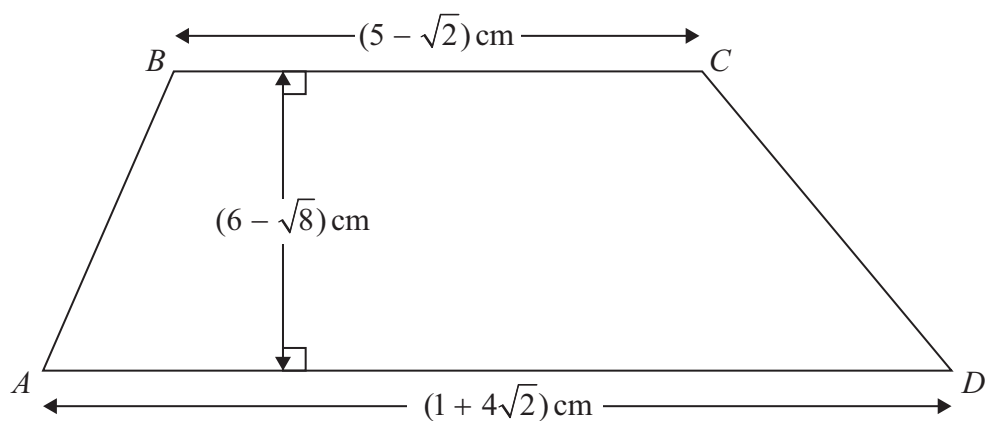
The number of people aged between 25 and 30 was 10 more than the number of people aged between 0 and 15

Work out the total number of people at the concert.

(Total for Question 19 is 4 marks)



20 The diagram shows trapezium  $ABCD$ .



Work out the area of the trapezium.

Give your answer in the form  $a + b\sqrt{2}$  where  $a$  and  $b$  are integers.

You must show all your working.

.....  $\text{cm}^2$

(Total for Question 20 is 5 marks)



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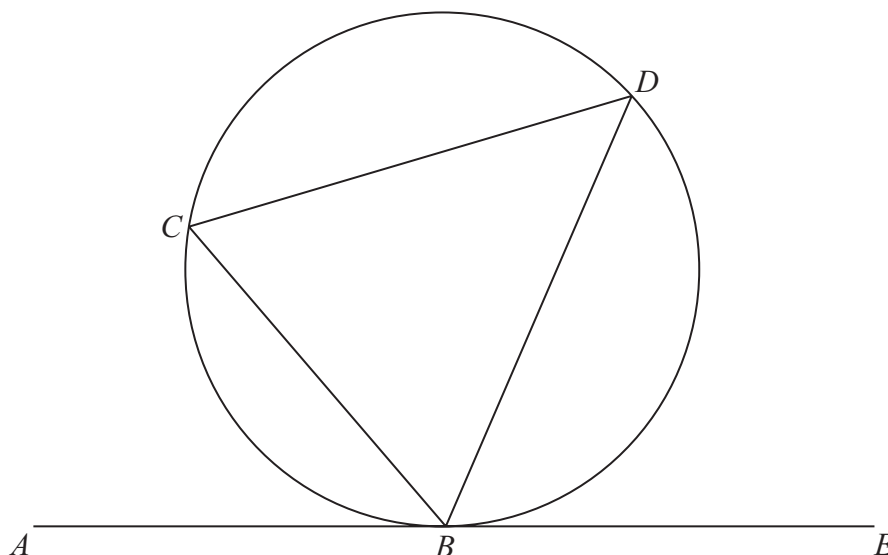
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21 Find algebraically the set of values of  $x$  for which

$$4x^2 + 27x - 7 > 0 \quad \text{and} \quad x^2 > 25$$

(Total for Question 21 is 4 marks)





$B$ ,  $C$  and  $D$  are points on a circle.

$ABE$  is the tangent to the circle at  $B$ .

Prove that  $\text{angle } ABC = \text{angle } BDC$ .

You may use any circle theorem except the Alternate Segment Theorem.

(Total for Question 22 is 4 marks)

TOTAL FOR PAPER IS 80 MARKS



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# Pearson Edexcel GCSE (9–1) Mathematics

Thursday 14 May 2026

Morning

Paper  
reference

**1MA1/1H**

## Mathematics

**PAPER 1 (Non-Calculator)**

**Higher Tier**

**Formulae Sheet**

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## Higher Tier Formulae Sheet

### Perimeter, area and volume

Where  $a$  and  $b$  are the lengths of the parallel sides and  $h$  is their perpendicular separation:

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

Volume of a prism = area of cross section  $\times$  length

Where  $r$  is the radius and  $d$  is the diameter:

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

$$\text{Area of a circle} = \pi r^2$$

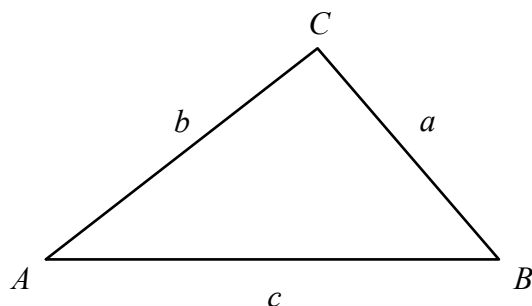
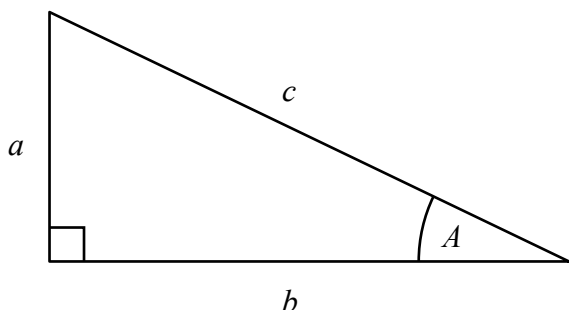
### Quadratic formula

The solution of  $ax^2 + bx + c = 0$

where  $a \neq 0$

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

### Pythagoras' Theorem and Trigonometry



In any right-angled triangle where  $a$ ,  $b$  and  $c$  are the length of the sides and  $c$  is the hypotenuse:

$$a^2 + b^2 = c^2$$

In any right-angled triangle  $ABC$  where  $a$ ,  $b$  and  $c$  are the length of the sides and  $c$  is the hypotenuse:

$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

In any triangle  $ABC$  where  $a$ ,  $b$  and  $c$  are the length of the sides:

$$\text{sine rule: } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{cosine rule: } a^2 = b^2 + c^2 - 2bc \cos A$$

$$\text{Area of triangle} = \frac{1}{2} a b \sin C$$

### Compound Interest

Where  $P$  is the principal amount,  $r$  is the interest rate over a given period and  $n$  is number of times that the interest is compounded:

$$\text{Total accrued} = P \left( 1 + \frac{r}{100} \right)^n$$

### Probability

Where  $P(A)$  is the probability of outcome  $A$  and  $P(B)$  is the probability of outcome  $B$ :

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

$$P(A \text{ and } B) = P(A \text{ given } B) P(B)$$

**END OF EXAM AID**