Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Candidate Number

Pearson Edexcel International GCSE

Friday 7 November 2025

Morning (Time: 2 hours)

Paper reference **4MA1/2F**

Mathematics A

PAPER 2F
Foundation Tier

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- **Calculators may be used**.
- You must **NOT** write anything on the formulae page.
  Anything you write on the formulae page will gain NO credit.

Information

- The total mark for this paper is 100.
- 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.
- Check your answers if you have time at the end.

Turn over ▶

P79787A

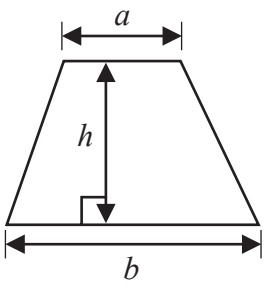
P 7 9 7 8 7 A 0 1 2 4

Pearson

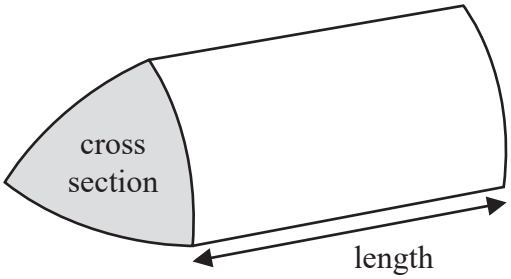
International GCSE Mathematics

Formulae sheet – Foundation Tier

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

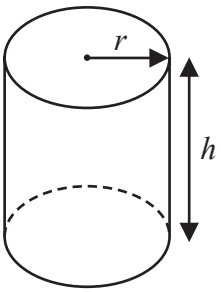


Volume of prism = area of cross section × length



Volume of cylinder = $\pi r^2 h$

Curved surface area of cylinder = $2\pi rh$



Answer ALL TWENTY EIGHT questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The table shows the distances, in kilometres, travelled by six birds.

Bird	Distance (km)
Northern wheatear	28 349
Arctic tern	95 786
Pectoral sandpiper	27 948
Sooty shearwater	64 321
Pied wheatear	17 582
Bar-tailed godwit	13 496

(a) Write down the name of the bird that travelled the greatest distance.

.....

(1)

(b) Write the number 64 321 correct to the nearest thousand.

.....

(1)

(c) Work out the difference between the distance travelled by the Northern wheatear and the distance travelled by the Pied wheatear.

..... km

(1)

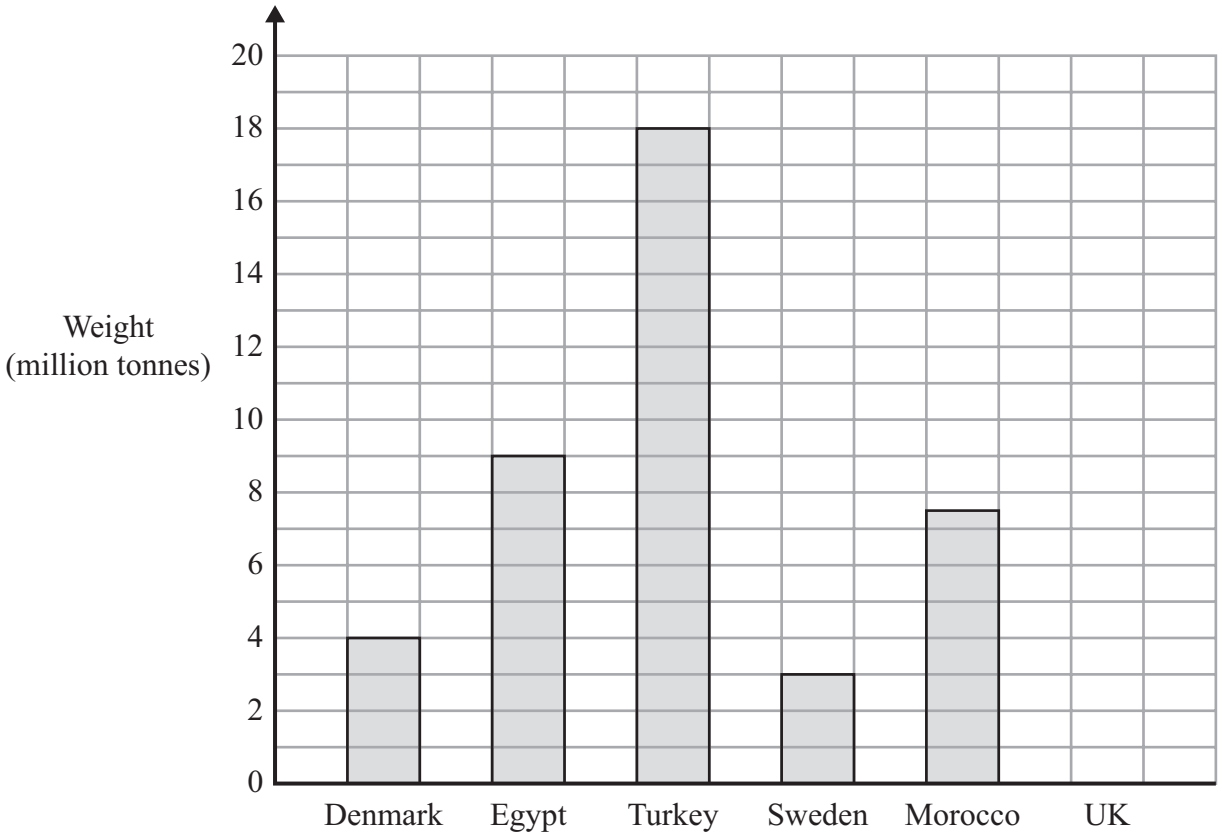
(d) On the dotted line, write down a number from the table to make this calculation correct.

..... ÷ 3 = 9316

(1)

(Total for Question 1 is 4 marks)

2 The bar chart shows information about the weight of wheat, in millions of tonnes, produced by each of five countries in 2021



The UK produced 14 million tonnes of wheat.

(a) Draw a bar on the bar chart to show this information.

(1)

(b) Write down the weight of wheat produced by Turkey.

..... million tonnes

(1)

One of these countries produced 7.5 million tonnes of wheat.

(c) Which country?

.....

(1)

One of these countries produced three times as many million tonnes of wheat as Sweden.

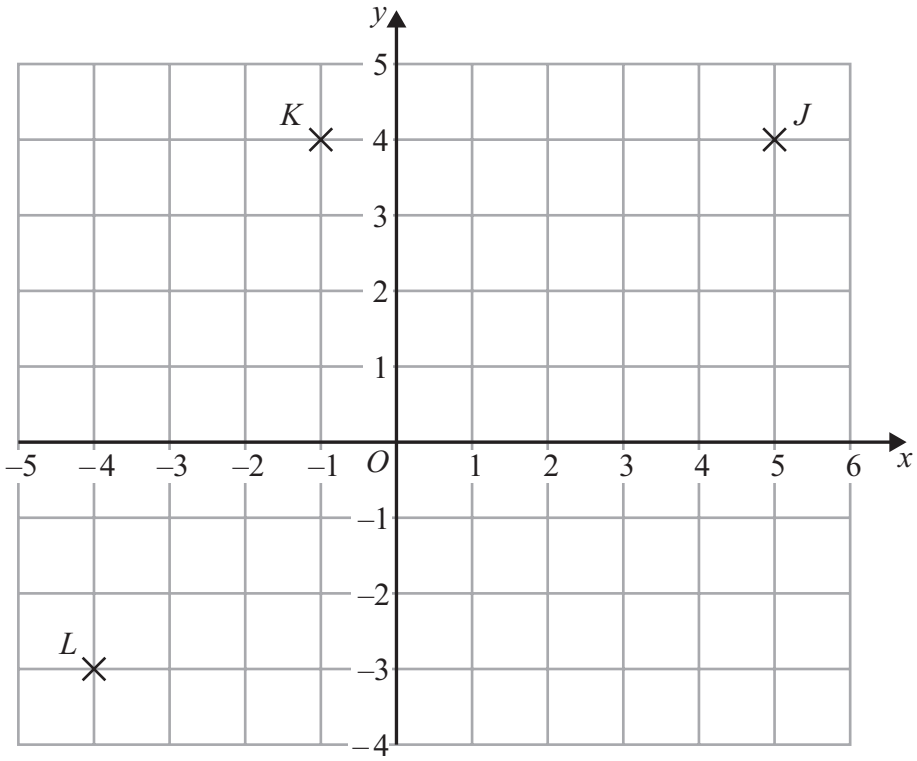
(d) Which country?

.....

(1)

(Total for Question 2 is 4 marks)

3



(a) Write down the coordinates of point J

(..... , ...)

(1)

(b) Write down the coordinates of point L

(..... , ...)

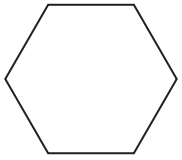
(1)

(c) On the grid, mark with a cross (×) the point M so that $JKLM$ is a parallelogram.
Label this point M

(1)

(Total for Question 3 is 3 marks)

4 Here is a regular hexagon.

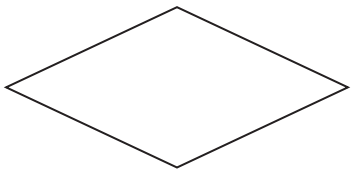


(a) Write down the order of rotational symmetry of a regular hexagon.

.....

(1)

Here is a quadrilateral with 4 sides of equal length.



(b) (i) Write down the mathematical name of this quadrilateral.

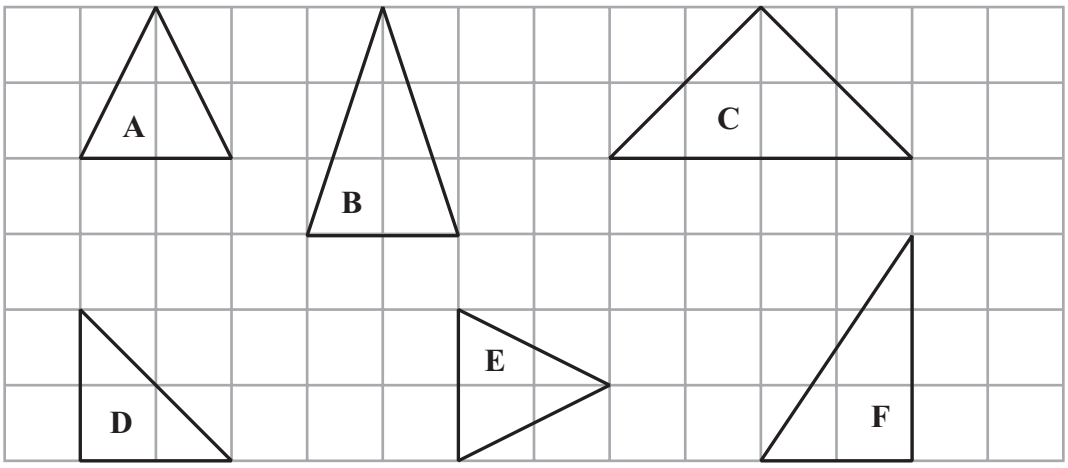
.....

(1)

(ii) Draw all the lines of symmetry on the quadrilateral.

(1)

Here are some triangles drawn on a grid.



Two of these triangles are congruent.

(c) Write down the letters of these two triangles.

..... and .....

(1)

(Total for Question 4 is 4 marks)

5 (a) Write these decimals in order of size.
Start with the smallest decimal.

0.67 0.078 0.7 0.76 0.706

.....

(1)

(b) Write 0.62 as a percentage.

.....%

(1)

Here are some fractions.

$\frac{1}{3}$ $\frac{2}{7}$ $\frac{4}{9}$ $\frac{3}{5}$ $\frac{10}{3}$

One of these fractions can be written as a terminating decimal.

(c) Write down this fraction.

.....

(1)

(Total for Question 5 is 3 marks)

6 Here is a number machine.

(a) Find the output when the input is 8

.....

(1)

Here is a different number machine.

When the input is 8 the output is 4

(b) Complete the box to give a possible number machine.

(1)

(Total for Question 6 is 2 marks)

7 Tara buys

two magazines for 3.25 dirhams each
one bag of sweets for 2.60 dirhams
three bars of chocolate for 1.75 dirhams each

Tara pays with a 20 dirham note.

How much change should she get?

..... dirhams

(Total for Question 7 is 4 marks)

8 $T = 5n - 3p$

(a) Work out the value of T when $n = 8$ and $p = 4.5$

$T =$ .....

(2)

(b) Solve $5h + 8 = 30$

$h =$ .....

(2)

(Total for Question 8 is 4 marks)

9 Here is an accurate scale drawing of a patio.

Scale: 1 cm represents 150 cm

Work out the perimeter of the patio.
Give your answer in metres.

..... metres

(Total for Question 9 is 4 marks)

10 (a) Find the value of 43^2

.....

(1)

(b) Find the cube root of 9261

.....

(1)

(c) Work out $28 - 5 \times 4$

.....

(1)

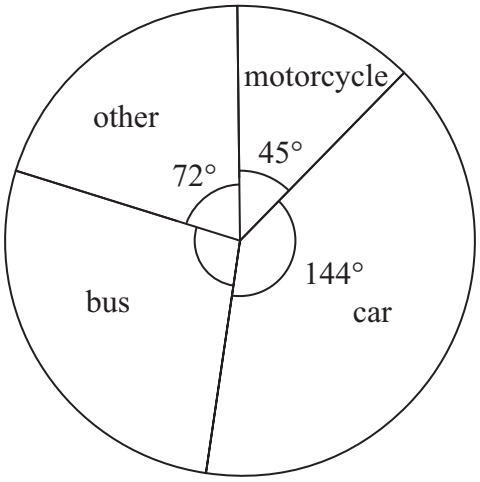
(d) Work out $3^3 + 6^2 \div 2$

.....

(2)

(Total for Question 10 is 5 marks)

11 The pie chart gives information about the types of vehicles parked in a car park.



(a) Which type of vehicle is the mode?

.....

(1)

5 of the vehicles are motorcycles.

(b) Work out the number of buses.

.....

(3)

Kim selects at random one of the vehicles in the car park.

(c) What is the probability that she selects a motorcycle?

.....

(1)

(Total for Question 11 is 5 marks)

12 (a) Find the value of $d^2 - 3$ when $d = -5$

.....

(1)

(b) Make r the subject of the formula $m = 4r - h$

.....

(2)

Rachel is an electrician.

The amount Rachel charges, in pounds (£), can be worked out using this rule.

multiply the number of hours worked by 27 then add 40

Rachel works n hours.
She charges £P

(c) Write down a formula for P in terms of n

.....

(3)

(Total for Question 12 is 6 marks)

13 Johan changes 290 euros to Hong Kong dollars.

The exchange rate is 1 euro = 8.23 Hong Kong dollars.

Johan gets as many 50 Hong Kong dollar notes as possible.

How many 50 Hong Kong dollar notes does Johan get?

.....

(Total for Question 13 is 3 marks)

14 A car travels for 3 hours.
The car travels at an average speed of 78 km/h

Work out the total distance the car travels.

..... km

(Total for Question 14 is 2 marks)

15 Here is a trapezium.

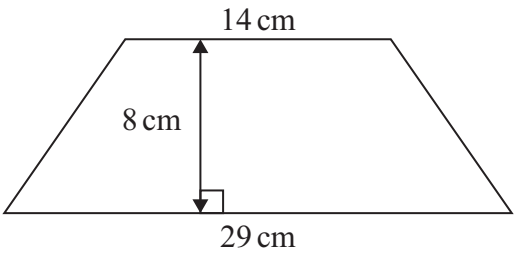


Diagram **NOT** accurately drawn

Work out the area of the trapezium.

..... cm^2

(Total for Question 15 is 2 marks)

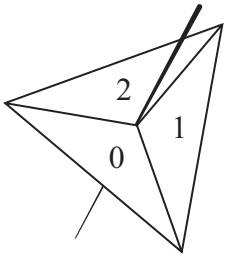
16 Find the lowest common multiple (LCM) of 24 and 56
Show your working clearly.

.....

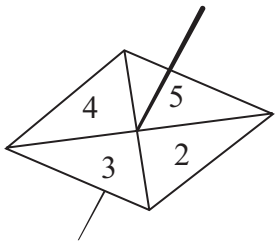
(Total for Question 16 is 2 marks)

17 Ella has two fair spinners.

Spinner A is labelled 0, 1 and 2
Spinner B is labelled 2, 3, 4 and 5



Spinner A



Spinner B

Ella is going to spin each spinner once.
Each spinner will land on a number.
Ella will get her score by multiplying these two numbers together.

(a) Complete the table.

Spinner A \ Spinner B	2	3	4	5
0	0	0	0	
1	2	3	4	
2	4	6		

(1)

(b) Find the probability that Ella's score is less than 5

.....

(2)

(Total for Question 17 is 3 marks)

18 The point P has coordinates (3, 4)
The point Q has coordinates (9, 16)

M is the midpoint of the line PQ

Find the coordinates of M

(..... , ...)

(Total for Question 18 is 2 marks)

19 Solve the simultaneous equations

$$5x + y = 11$$
$$3x - y = 9$$

Show clear algebraic working.

$x =$ .....

$y =$ .....

(Total for Question 19 is 3 marks)

20 A box contains only

9 red bricks
43 blue bricks
and some yellow bricks

$\frac{7}{20}$ of the bricks are yellow bricks.

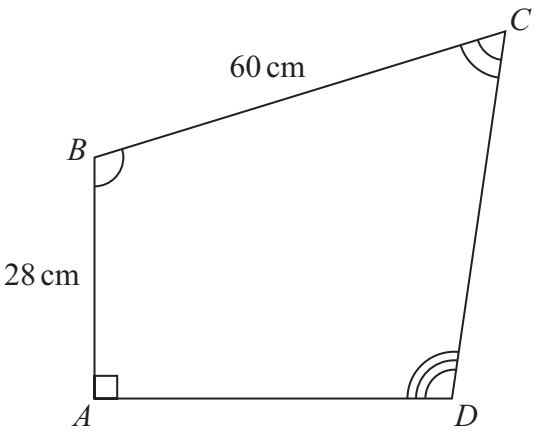
Each brick weighs 35 grams.

Work out the total weight of the yellow bricks.

..... grams

(Total for Question 20 is 4 marks)

21 Here are three similar quadrilaterals.



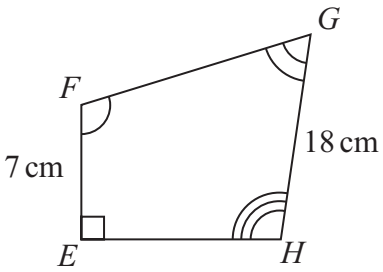
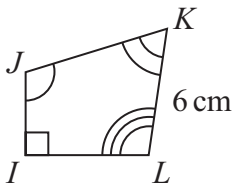


Diagram **NOT** accurately drawn



Work out the length of *JK*

..... cm

(Total for Question 21 is 3 marks)

22 Otis sells ice creams.

On Friday, Otis sells 75 ice creams.
On Saturday, Otis sells 87 ice creams.

(a) Work out the percentage increase in the number of ice creams Otis sells from Friday to Saturday.

..... %
(3)

Claudia buys an ice cream machine for 960 Swiss francs.

The value of the ice cream machine depreciates by 20% each year.

(b) Work out the value of the ice cream machine at the end of 3 years.

..... Swiss francs
(3)

(Total for Question 22 is 6 marks)

23 A large circle with centre O contains 3 identical small circles.
Each circle touches two other circles.

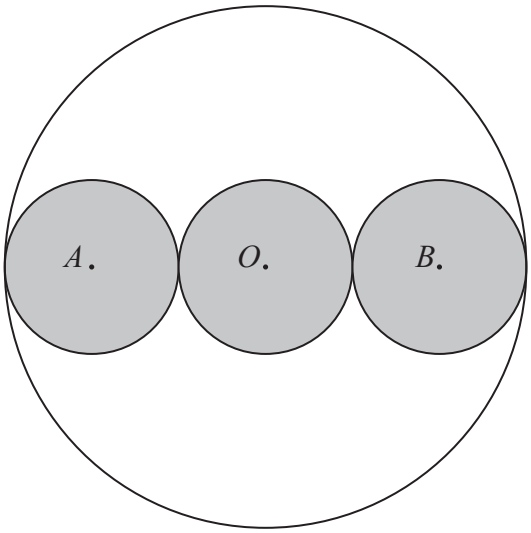


Diagram **NOT** accurately drawn

A, O and B are the centres of the small circles.
AOB is a straight line.

The circumference of the large circle is 160 cm

Work out the area of one small circle.
Give your answer correct to 3 significant figures.

..... cm^2

(Total for Question 23 is 5 marks)

24 (i) Factorise $x^2 + 2x - 48$

.....

(2)

(ii) Hence, solve $x^2 + 2x - 48 = 0$

.....

(1)

(Total for Question 24 is 3 marks)

25 (a) Write 5.76×10^4 as an ordinary number.

.....

(1)

(b) Work out $\dfrac{3 \times 10^5 + 8 \times 10^3}{4 \times 10^{-2}}$

Give your answer in standard form.

.....

(2)

(Total for Question 25 is 3 marks)

26 Mark has three bags, bag A, bag B and bag C

Bag A contains 120 counters.
The probability of taking at random a red counter from bag A is 0.45

Bag B contains 80 counters.
The probability of taking at random a red counter from bag B is 0.3

Bag C is empty.

Mark puts all the counters from bag A and bag B into bag C

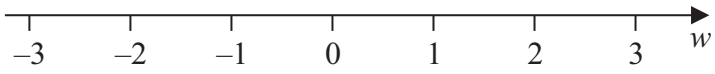
Mark takes at random a counter from bag C

Work out the probability that he takes a red counter.

.....

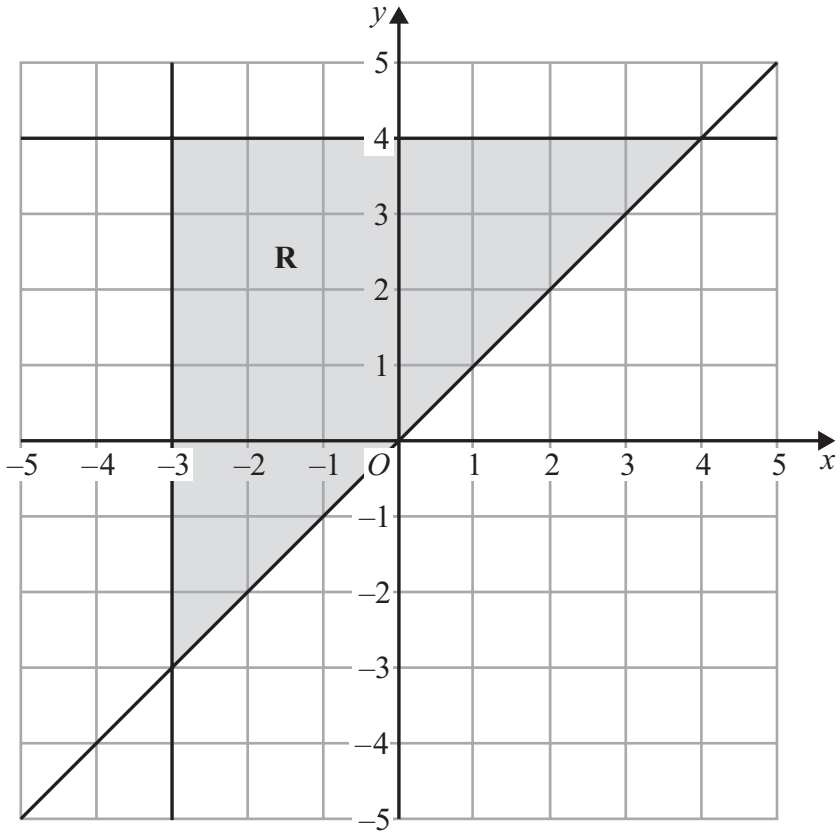
(Total for Question 26 is 3 marks)

27 (a) On the number line, represent the inequality $w < 1$



(1)

The region **R**, shown shaded in the diagram, is bounded by three straight lines.



(b) Write down the three inequalities that define the region **R**

.....

.....

.....

(3)

(Total for Question 27 is 4 marks)

Turn over for Question 28

28 The diagram shows a right-angled triangle ABC

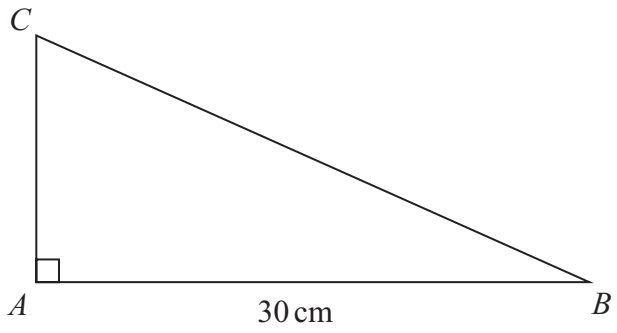


Diagram **NOT** accurately drawn

Area of triangle $ABC = 240\,\text{cm}^2$

Work out the perimeter of triangle ABC

..... cm

(Total for Question 28 is 4 marks)

TOTAL FOR PAPER IS 100 MARKS