CO
Rewarding Learning

## General Certificate of Secondary Education

## Mathematics



Module N1 Paper 1
(Non-calculator)
Foundation Tier
[GMN11]
MONDAY 18 MAY
$1.30 \mathrm{pm}-2.15 \mathrm{pm}$

## TIME

45 minutes.

## INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.
Write your answers in the spaces provided in this question paper.
Answer all eleven questions.
Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.
You must not use a calculator for this paper.

## INFORMATION FOR CANDIDATES

The total mark for this paper is 44 .
Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.
You should have a ruler, compasses, set-square and protractor.

| For Examiner's <br> use only |  |
| :---: | :---: |
| Question <br> Number | Marks |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| Total <br> Marks |  |

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1 (a) The nets of two solids are shown below.
Name the solids, choosing from

## cylinder triangular based pyramid cone cuboid cube square based pyramid



Net A


Net B

Answer Net A $\qquad$

Answer Net B
(b)


Complete the sentences below, choosing from
diameter sector radius chord circumference segment

O is the centre of the circle and A is a point on the $\qquad$ of the circle.

The line OA is the $\qquad$ of the circle.

The line BC is a $\qquad$ of the circle.

290 pupils were asked which of the following ice-cream flavours they liked best. The first three rows of the pictogram are drawn below.

## Ice-cream flavour liked best

Strawberry
Vanilla


Honeycomb


Chocolate
(a) 24 pupils liked Strawberry best.

Complete the key:

(b) How many pupils liked Honeycomb best?

Answer $\qquad$
(c) Complete the row of the pictogram for Chocolate.

From the list of numbers write down
(a) the square number

Answer $\qquad$ [1]
(b) the multiple of 9

Answer $\qquad$ [1]
(c) the two numbers which are factors of 36

Answer $\qquad$ and $\qquad$ [1]
(c) Comple

4 Look at the pattern of numbers below.
1
$1+3$
$1+3+5$
$1+3+5+7$
(a) Find the totals for the first 4 lines of this pattern.

Answer $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
(b) Write down the special name given to these totals.

Answer $\qquad$

5 (a) Work out 500-272

Answer $\qquad$
(b) Write 26 million in figures.

Answer $\qquad$

6 Show that the following numbers are in ascending order of size.

$$
28 \%, \quad \frac{3}{10}, \quad 0.4
$$

7 (a) The ages of some footballers are

What is the mean age of the footballers?

Answer $\qquad$
(b) The pie chart shows how Jason spent six hours at home one evening.

(i) How much time was spent doing homework?

Answer $\qquad$ hours
(ii) Estimate the time spent watching TV.

Answer $\qquad$ hours [1]
(iii) Measure the angle for playing games.

Answer $\qquad$

8 (a) A rectangle has length 6 cm and breadth 2 cm . Calculate its perimeter.

Answer $\qquad$ cm [1]
(b) (i)


Calculate the volume of the cuboid which has a length 15 cm , breadth 10 cm and height 12 cm .

Answer
(ii) Another cuboid has volume $120 \mathrm{~cm}^{3}$.

The length of the cuboid is 8 cm . The breadth is 5 cm .
Find the height of the cuboid.

Answer $\qquad$ cm [2]

9 During a short period the colours of cars passing a school were noted. The results were as follows

| Blue | 15 |
| :--- | ---: |
| Green | 10 |
| White | 9 |
| Black | 5 |
| Red | 21 |

Draw a pie chart to illustrate this information.


10 (a) Complete the table for $y=3 x-1$

| $x$ | -1 | 1 | 3 | 4 |
| :---: | :---: | :---: | :---: | :---: |
| $y=3 x-1$ |  | 2 | 8 | 11 |

(b) Hence draw the graph of $y=3 x-1$


11 (a) Calculate $5^{2} \times 2^{3}$
(b) Write $\frac{7}{8}$ as a percentage.

Answer $\qquad$ $\%$ [2]

## THIS IS THE END OF THE QUESTION PAPER

