$\qquad$

## Class:

$\qquad$

| Question |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ | $\mathbf{1 1}$ | $\mathbf{1 2}$ | $\mathbf{1 3}$ | Total |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Instructions to Candidates

- Answer ALL questions.
- This paper carries a total of $\mathbf{2 0}$ marks.
- Calculators and protractors are not allowed.

1. Write in figures:
fifteen thousand six hundred and seventeen: $\qquad$
2. Add:
$43.06 \mathrm{~km}+$
38.49 km
3. Multiply: $24 \times 9$
(2 marks)
4. Draw the dots of the next domino in the sequence.

5. Look at the diagram.


The arrow is pointing to $\qquad$ g.
6. Write down the time shown on the clock.

$\qquad$
(2 marks)
7. Complete the function machine.

8. Write in lowest terms.

$$
\frac{18}{27}=-
$$

9. Write down an estimate for this angle.

10. Draw the lines of symmetry of this shape.

11. Work out.
a) $9-15$
b) $(-3) \times 5$
12. Each side of a square is 1 cm .

Find the area of the shaded shape.
$\qquad$

(1 mark)
13. A T-shirt costs € 13 .

How many T-shirts can I buy for $€ 195$ ?

$\qquad$ T-shirts
(2 marks)

| Main Paper |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | Total <br> Main | Non Calc | Global Mark |
| Mark |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

DO NOT WRITE ABOVE THIS LINE

Name $\qquad$ Class $\qquad$

- Answer all questions.
- This paper carries 80 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. Use your calculator to work out $623.9 \div 5.3-1.635$ Write your a nswer:
a) correct to nearest whole number. $\qquad$
b) correct to 1 decimal place: $\qquad$
c) correct to $\mathbf{2}$ decimal places:
2. J oin each angle to its correct name.

3. Kevin bought all these items for his office.

a) How much did Kevin have to pay?

## $€$

$\qquad$
b) Kevin gave the salesgirl a $€ 50$ note.

How much change did he receive?
4. Use compasses, ruler and pencil to bisect angle $A B C$.

$\qquad$
$\qquad$
5. a) Draw all the line of symmetry.
b) Write down the order of rotational symmetry of the shape.


Order of rotational symmetry: $\qquad$
c) i) Draw the reflection of shape $A$ in the $\boldsymbol{x}$-axis. Name this shape B.
ii) Draw the reflection of shape $B$ in the $y$-axis. Name this shape C.

(8 marks)
6. a) Shade $\frac{2}{5}$ of the shape.

c) Make equivalent fractions:

$$
\frac{2}{5}=\frac{}{35}
$$

b) Change $\frac{2}{5}$ to a percentage.
$\qquad$
d) Work out:

$$
\frac{2}{5}-\frac{2}{35}
$$

7. Claire drew these shapes on her copybook.
a) Use the data above to fill in the table:

| Shape | Tally | $f$ |
| :---: | :---: | :---: |
| $\Delta$ |  |  |
| $\bigcirc$ |  |  |
| $\Delta$ |  |  |
| $\Sigma$ | $/ / / /$ | 4 |
| Total number of shapes |  |  |

b) Complete the barchart.

c) Fill in correctly.
i) What percentage of the shapes is $\triangle s$ ? $\qquad$ \%
ii) There are $\qquad$ more $\bigcirc s$ than $\triangle s$.
iii) The probability of choosing a at random is $\qquad$ .
8. Fill in the blanks using the following words. Each word can be used only once.
certain

likely
a) If I throw a six-sided dice I will get a 9 . $\qquad$
b) It will ra in in February. $\qquad$
C) I will grow to be 120 years old. $\qquad$
d) July comes after J une. $\qquad$
9. a) Look at the diagram and fill in the blanks.

i) $\mathbf{O B}$ is called the $\qquad$ .
b) Find the size of each angle marked with a letter.


$$
x=.
$$

$\qquad$
。
$y=$ $\qquad$
10. a) Complete the LOGO commandsto draw a square of turtle steps (ts) as shown in the diagram.

## PD

REPEAT $\qquad$ [ $\qquad$ 125 $\qquad$ 90 ]
b) Work out the perimeter of the square in ts.

$\qquad$
11. a) On the grid draw the net of a cube of side $\mathbf{2 c m}$. Each square on the grid is of side 1 cm .

|  |  |  |  |  |  |  |  |  |  |
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b) Find the volume of a cube of side 8.5 cm .
12. a) Plot the following points on the grid:

$$
\begin{array}{ll}
\text { A } & (2,2) \\
\text { B } & (-1,2) \\
C & (-1,6) \\
\text { D } & (2,6)
\end{array}
$$


b) J oin $A$ to $B, B$ to $C, C$ to $D$ and $D$ to $A$.

The shape $A B C D$ is called a $\qquad$ .
c) Draw the translation of this shape $\mathbf{3}$ units to the left and $\mathbf{5}$ units down.
13. a) Simplify: $8 x-3 x-7 x+4 x$
b) Find the value of: $4^{3}$
c) Expand: 5(6-y)
d) Given that $h=3$ and $k=7$ find the value of $2 h-k$.

## END OF PAPER

