## SAMPLE ENTRANCE EXAMINATION PAPER

## For pupils currently in Year 6

## MATHEMATICS

- The test is 45 minutes long.
- You may not use a calculator.
- Write in ink, draw diagrams in pencil.
- Show your working and write your answers on the lines provided.
- You must show your working
- You will need a pencil and a ruler
- You will be given tracing paper

2. 15.2-5.7
3. 

$254 \times 6$ $\qquad$
4. $342 \div 6$ $\qquad$
5. $\quad Q$ is the midpoint of line $M N$.

The coordinates of $Q$ are $(30,50)$


What are the coordinates of points $\mathbf{M}$ and $\mathbf{N}$ ?
M is $($

N is $($
..)
6. On each spinner write five numbers to make the statements correct.

It is certain that you will get a number less than 6


It is more likely that you will get an even number than an odd number.


It is impossible that you will get a multiple of 3

7. A meal in a restaurant costs the same for each person.

For 11 people the total cost is $£ 253$

What is the total cost for 12 people?
8. 1976 v 2002

Look at this information.

In 1976, a man earned £16 each week.

The pie chart shows how he spent his money.

(a) How much did the man spend on food each week?
(b) Now look at this information.

In 2002, a man earned $£ 400$ each week.

The table shows how he spent his money.

| Rent | $£ 200$ |
| :---: | :---: |
| Food | $£ 100$ |
| Entertainment | $£ 50$ |
| Other | $£ 50$ |

Complete the pie chart below to show how the man spent his money.
Remember to label each sector of the pie chart.

9. Calculate $-12-5=$
10. $6-18=$
11. $-2+9=$
12. I have a square piece of paper.

The diagram shows information about this square labelled $A$.


I fold square $A$ in half to make rectangle $B$.


What is the perimeter of shape $b$ ?
Then I fold rectangle $B$ in half to make square $C$.

What is the perimeter of square $c$ ?
13. Calculate $15 \%$ of $£ 340$
(2)
14. Calculate $5 / 8$ of $\$ 160$
15. a) You can rotate triangle $\mathbf{A}$ onto triangle $\mathbf{B}$. Put a cross on the centre of rotation.


You may use tracing paper to help you.
b) You can rotate triangle $\mathbf{A}$ onto triangle $\mathbf{B}$.

The rotation is anti-clockwise.
What is the angle of rotation?
(c) Reflect triangle $\mathbf{A}$ in the mirror line.

You may use tracing paper to help you.

17. A bag of sweets contains 420 sweets. If these are to be shared equally between 17 people how many sweets would each person get?
$\qquad$
18. Put these numbers in order if size from smallest to largest:
$0.2,0.122,0.02,0.0546,0.102,0.065$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

