

SAMPLE ENTRANCE EXAMINATION PAPER

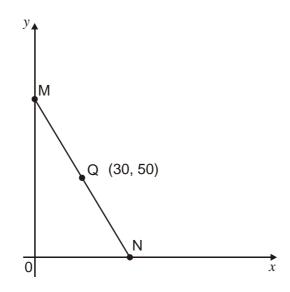
For pupils currently in Year 6

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

- 1. 3.7+5.7 www.cambridgeacademictuition.co.uk (1)
- 2. 15.2-5.7 (1)
- 3. 254 x 6 ______ (1)
- 4. 342÷6 _____ (1)
- 5. Q is the **midpoint** of line MN.

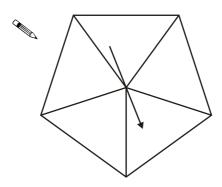
The coordinates of Q are (30, 50)



What are the coordinates of points ${\bf M}$ and ${\bf N}$?

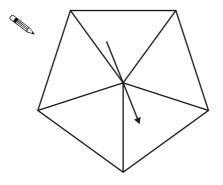
6. On each spinner **write five numbers** to make the statements correct.

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



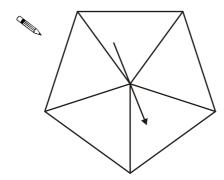
(1)

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



(1)

It is impossible that you will get a multiple of 3



(1)

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

For 11 people the total cost is £253

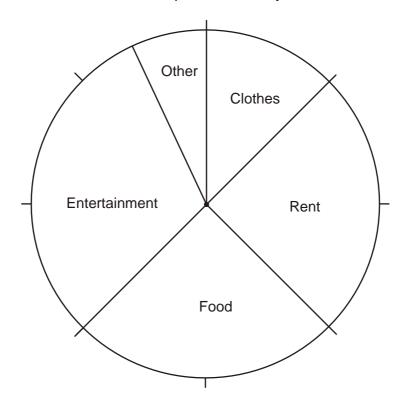
What is the total cost for 12 people? (2)

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?

______(1)

(b) Now look at this information.

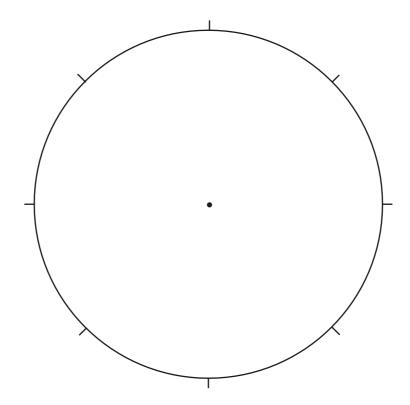
In 2002, a man earned £400 each week.

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.

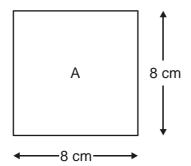
Remember to label each sector of the pie chart.



(2)

- 9. Calculate -12 5 = _____
- 10. 6 18 = _____ (1)
- 11. -2 + 9 = _____ (1)
- 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? _____ (1)

Then I fold rectangle B in half to make square C.



What is the perimeter of square c? (1)

13. Calculate 15% of £340

_____(2)

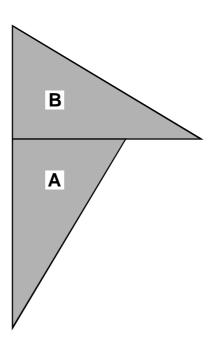
(1)

14. Calculate % of \$ 160

(0)
1')
12
 \—

15. a) You can **rotate** triangle **A** onto triangle **B**.

Put a cross on the **centre of rotation**.



You may use tracing paper to help you.

(1)

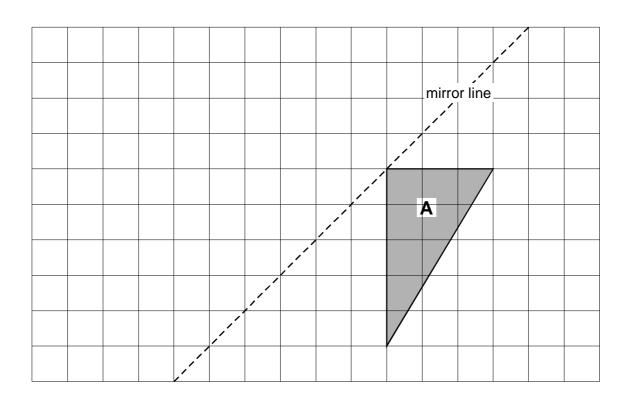
b) You can **rotate** triangle **A** onto triangle **B**.

The rotation is anti-clockwise.

What is the **angle** of rotation?

(c) **Reflect** triangle **A** in the mirror line.

You may use tracing paper to help you.



(1)

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?

_____(2)

18. Put these numbers in order if size from smallest to largest:

0.2, 0.122, 0.02, 0.0546, 0.102, 0.065

_____ (2)