

# Mental Mathematics - Set E - Test 1

***I am going to start with the practice question. I will then ask you 30 questions for the test. You will see a box on your answer sheet to write your answer. For some questions there will be some information on the sheet to help you.***

***I will read each question twice, and then you will have some time to work out the answer and write it down.***

***Here is the Practice Question. You will have 5 seconds to complete this question.***

	<b>P</b>	<b>Multiply the two numbers on your sheet</b>
--	----------	---

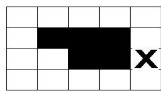
***Put your pens or pencils down. The answer is ...700..... Are there any questions?***

***Now we are ready to start the test. For the first group of questions you will have 5 seconds to work out each answer and write it down.***

Answer	Question Number	Question
10	1	What is four plus two multiplied by three?
50	2	Ten percent of a number is five, what is the number?
13 : 15	3	On the school bus there are thirteen girls and fifteen boys. What is the ratio of girls to boys?
8	4	Work out the value of two cubed.
- 7°	5	The temperature during a winter's day is 2° Centigrade. At night it drops by 9° Centigrade. What is the temperature at night?
1	6	What is the remainder when seventy-seven is divided by four?
9	7	Circle the number that is NOT a prime number.
12	8	Circle the number that is NOT a factor of six.
4	9	Circle the number that is NOT a multiple of eight.
3	10	What is the square root of nine?

***For the next group of questions you will have 10 seconds to work out each answer and write it down.***

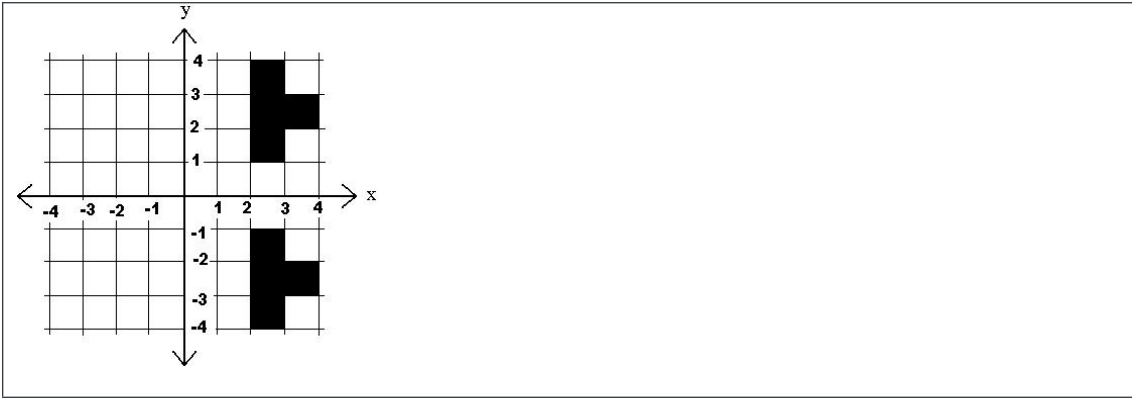
# Mental Mathematics - Set E - Test 1

Answer	Question Number	Question
2, -1	11	Write down the next two numbers in the sequence 14, 11, 8, 5?
$3x - 6$	12	Simplify the expression shown.
10	13	Look at the equation shown. Write down the value of $y$ .
(-3, 3)	14	What is the coordinate of the shape shown?
0.374	15	Convert three hundred and seventy four metres to kilometres
6	16	The milk carton stated that it contained 3 litres. Approximately how many pints is this?
130	17	If angle M equals fifty degrees, how big is angle E ?
3.25 (accept 1525)	18	The recipe for a cake stated that it needed to be cooked for forty minutes. If it was put into the oven at two forty-five, when should it come out?
	19	Fill in only one square so that the shape has a rotation order of 2, but no reflective symmetry.
50	20	A triangle has angles forty-five degrees, eighty-five degrees and an unknown angle. What is the size of the unknown angle?

**For the next group of questions you will have 15 seconds to work out each answer and write it down.**

Answer	Question Number	Question
120	21	The clock on the wall of Mark's bedroom stated that it was 4 o'clock. What is the angle between the hands?
Students in a class	22	Circle which of these groups of data is discrete.
2.4	23	What number on the ruler is at the letter A?
6	24	There are twenty-four students in class. How they travel to school is shown on the pie chart. How many students travelled on a bicycle?
16	25	A square has sides 2cm. The sides are increased by a scale factor of two. What is the area of the new square?
$\frac{3}{10}$	26	Simon has a bag of marbles containing the marbles shown. What is the probability he chooses an orange marble. Write your answer as a fraction in its simplest form.
£8.64	27	Carlos spent ten pound in the shop and received the coins shown as change. How much did Carlos spend?
80	28	By using the graph, Charlotte was able to work out her speed in kilometres per hour when she was driving at fifty miles per hour. How fast was she travelling in kilometres per hour?
C	29	Write down the letter of the shape that is not congruent?
	30	Draw the reflection of the shape in the x-axis.

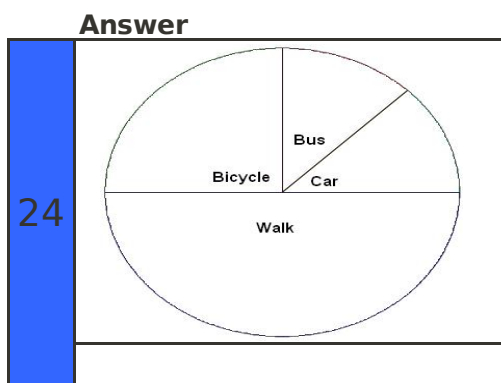
# Mental Mathematics - Set E - Test 1



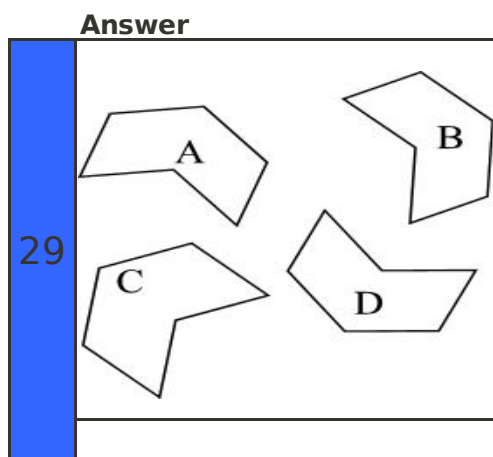
***'Put your pens down. The test is over.'***



## Side 2 - Set E - Test 1



**Mark**



**Mark**

25 cm<sup>2</sup>

26

**5 Red marbles**  
**7 Green marbles**  
**2 Yellow marbles**  
**6 Orange marbles**

