## Ma

## KEY STAGE

## Paper 2 <br> Calculator allowed

First name $\qquad$

Last name $\qquad$

Class

Date

Please read this page, but do not open your booklet until your teacher tells you to start. Write your name, the name of your class and the date in the spaces above.

## Remember

- The test is 45 minutes long.
- You may use a calculator for any question in this test.

■ You will need: pen, pencil, rubber, ruler and a calculator.
■ This test starts with easier questions.

- Try to answer all the questions.
- Write all your answers and working on the test paper - do not use any rough paper. Marks may be awarded for working.
- Check your work carefully.
- Ask your teacher if you are not sure what to do.


## Instructions

## Answers

This means write down your answer or show your working and write down your answer.

## Calculators

You may use a calculator to answer any question in this test.

1 In the summer, Mina sells ice creams in the park.
The bar chart shows the number of ice creams she sold on five days.

(a) On which day did she sell fewest ice creams?

(b) How many ice creams did she sell on Tuesday?
(c) She sold more ice creams on Wednesday than on Monday.

How many more?

$\qquad$
$\square$

2 Write exactly three coins that make each amount of money below.
The first one is done for you.

|  |  | coins |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| amount of money |  |  |  |  |  |
| 40 p | $20 p$ | $10 p$ | $10 p$ |  |  |
| $80 p$ |  |  |  |  |  |
| $£ 1.20$ |  |  |  |  |  |
| $£ 1.60$ |  |  |  |  |  |

$\overline{2 \text { marks }}$

3 Look at the shapes drawn on a square grid.


Complete the sentences below by writing the correct letter.
One is done for you.

Shape $D$ has exactly one right angle.
$\mathbb{V}$
Shape $\qquad$ is a square.

Shape $\qquad$ has exactly two lines of symmetry.

Shape $\qquad$ is a hexagon.
$\square$

4 How many millilitres of water are in the jug?

ml

5 The table below shows the times of some exercise classes at a sports centre.

| Start time | Monday | Tuesday | Wednesday | Thursday | Friday |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $11: 00$ |  | Body Tone <br> 45 minutes | Step Class <br> 60 minutes |  |  |
| $11: 30$ |  |  | Aerobics <br> 30 minutes |  |  |
| $12: 00$ | Yoga <br> 45 minutes |  |  |  |  |
| $12: 30$ | Body Tone <br> 30 minutes |  | Keep Fit <br> 45 minutes |  | Yoga <br> 60 minutes |
| $13: 00$ |  |  |  | Keep Fit <br> 60 minutes |  |
| $13: 30$ | Step Class <br> 60 minutes |  |  | Yoga <br> 90 minutes | Body Tone <br> 45 minutes |
| $14: 00$ |  |  |  |  |  |

(a) On which days are there Step Classes?
$\qquad$ and $\qquad$
(b) On Tuesday, what time does Keep Fit start?

$\qquad$ : $\qquad$
(c) On Wednesday, what time does Yoga end?


6 Tom goes shopping.
This is what he buys.


Tom pays with a $£ 20$ note.
How much change should he get?

7 Look at the number line below.
Write the missing numbers in the boxes.


1 mark

1 mark

8 Round these amounts of money to the nearest pound.
The first one is done for you.

| amount | to the nearest pound |
| :---: | :---: |
| $£ 3.20$ | $£ 3.00$ |
| $£ 6.49$ | $£$ |
| $£ 9.81$ | $£$ |
| $£ 50.75$ | $£$ |

$\square$

9 Each side of this number square adds to 20
Write the missing numbers.


10 Look at this map of an island drawn on a square grid.

(a) The coordinates of the castle are $(5,5)$

Write the coordinates of the tower.
(——, — )
(b) There is a boat at $(3,0)$

Mark this point on the grid with a cross.
$\square$

11 Tom sells different coloured tickets for a raffle.
The table below shows the tickets he sells.

| colour of ticket | number sold |
| :---: | :---: |
| red | 20 |
| yellow | 30 |
| blue | 50 |
| white | 100 |

The winning ticket is chosen at random.
Write the correct colours to complete the sentences.

It is more likely to be a yellow ticket than a $\qquad$ ticket.

1 mark

It is half as likely to be a $\qquad$ ticket as a white ticket.
$\overline{1 \text { mark }}$

There is an even chance it will be a $\qquad$ ticket.

12 (a) Shade one third of this shape.

(b) The square grid below shows part of a shape.

One-third of the shape has been shaded.

Draw lines to complete the shape.

$\square$

13 Erin makes this shape with 5 cubes.


Isometric grid

Then she adds 2 more cubes to the shape.
Tick $(\checkmark)$ the diagram that could show her new shape.






Isometric grid

14 Here are four number cards.


6
(a) Use all four cards to make an odd number that is greater than 3000

(b) Mina says:
'I can use all four cards to make an odd number that is greater than 3000 but smaller than 4000'

Is she correct?


Explain your answer.


1 mark
$\square$

15 Look at the rectangle.


Measure accurately the length of a diagonal of this rectangle.


16 Erin thought of a number.

She added 15 to her number.
Then she multiplied the result by 4
The answer was 164

What was Erin's number?
$\qquad$

17 The diagram shows average heights of men and women in six different countries.

(a) In one country the average height of men is 172 cm .

What is the average height of women in this country?
$\qquad$
(b) In another country the average height of men is 12cm more than the average height of women.

On the graph, put a ring round the cross for this country.
$\square$

18 (a) Draw a four-sided shape that has two pairs of parallel sides.

|  | Q |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(b) Draw a five-sided shape that has only one pair of parallel sides.


Square
grid

19 One tin holds 2.5 litres of paint.


I need 20 litres of paint.
How many of these tins should I buy?
$\square$

20 Look at this equation.

$$
y=x+9
$$

(a) When $x=17$, what is the value of $y$ ?

(b) When $y=17$, what is the value of $x$ ?

21 Tom uses 5 squares to make this shape on a centimetre square grid.


On the centimetre square grid below draw a different shape. It must have a smaller perimeter than Tom's shape but the same area.

$\square$

## END OF TEST

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