

# MATHEMATICS

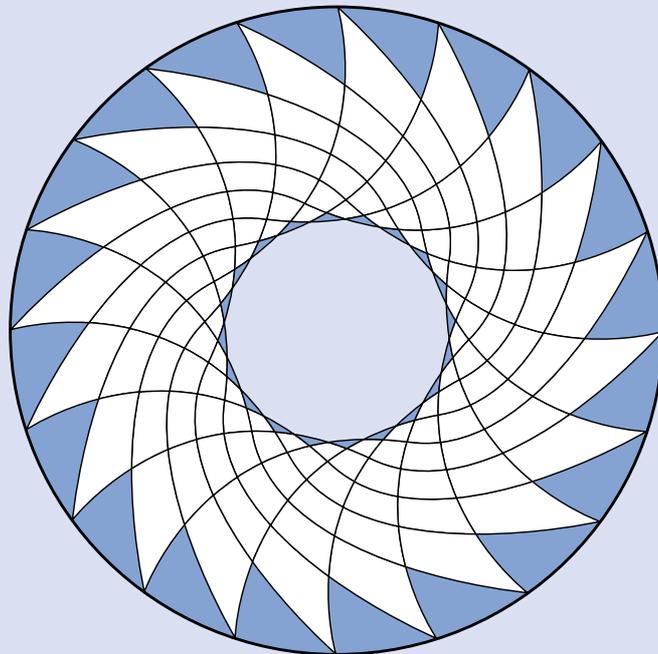
KEY STAGE 2 2001

TEST A

LEVELS  
**3-5**

CALCULATOR NOT ALLOWED

PAGE	MARKS
3	
5	
7	
9	
11	
13	
15	
17	
<b>TOTAL</b>	



**First Name**

**Last Name**

**School**



# Instructions

You **may not** use a calculator to answer any questions in this test.

Work as quickly and as carefully as you can.

You have **45 minutes** for this test.

If you cannot do one of the questions, **go on to the next one**.  
You can come back to it later, if you have time.

If you finish before the end, **go back and check your work**.

**Follow the instructions for each question carefully.**



This shows where you need to put the answer.

If you need to do working out, you can use any space on a page.

**Some questions have an answer box like this:**



For these questions you may get a mark for showing your working.

**1**

Write in the missing numbers.



$$45 + \boxed{\phantom{00}} = 110$$

$$(4 \times 5) - \boxed{\phantom{00}} = 12$$

$$60 \times 3 = \boxed{\phantom{00}}$$

1a

1 mark

1b

1 mark

1c

1 mark

**2**

£5.40

72p

£2.88

£0.65

£10

Write these amounts of money in **order of size**, starting with the **smallest** amount.
    

smallest

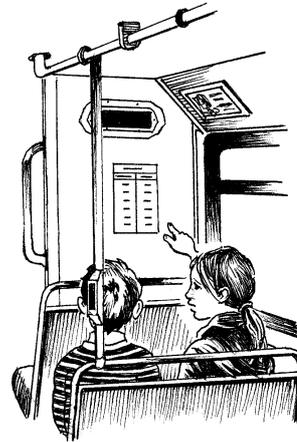
2

1 mark

**3**

This table shows the increase in bus fares.

Bus Fares	
old fare	new fare
42p	48p
52p	57p
60p	72p
75p	85p
90p	£1.05
£1.20	£1.28



Sohan's **new** bus fare is **72p**.

How much has his bus fare gone up?

  p

3a  
1 mark

Millie says,

***'My bus fare has gone up by 10p'.***

How much is Millie's **new** bus fare?

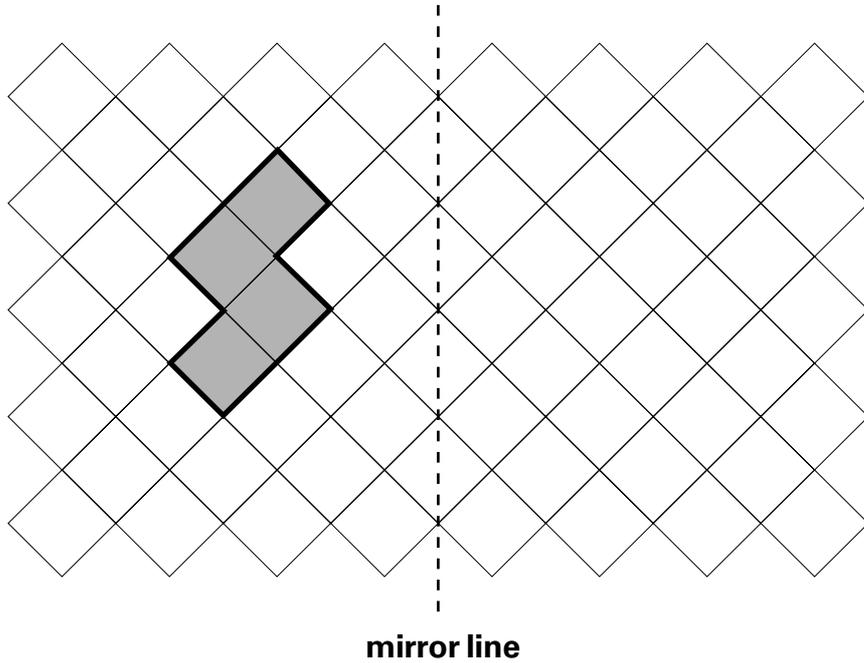


3b  
1 mark

4

Draw the **reflection** of the shaded shape in the mirror line.

You may use a mirror or tracing paper.



4  
1 mark

5

Circle the number **nearest to 1000**



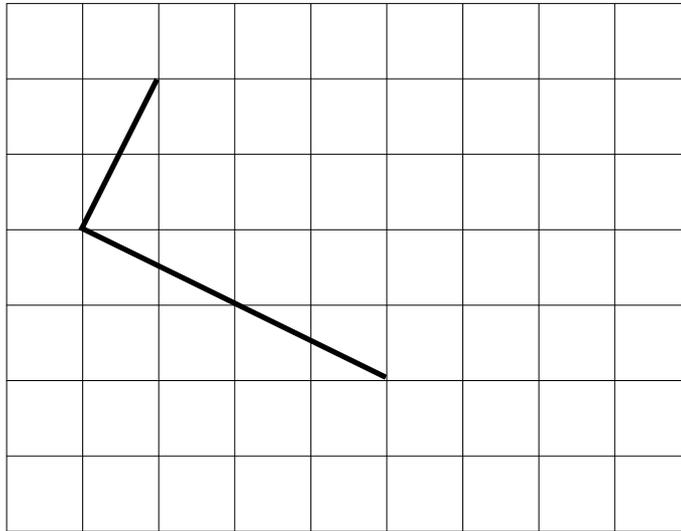
1060    1049    1100    960    899

5  
1 mark

6

Draw **two more straight lines** to make a rectangle.

Use a ruler.



6

1 mark

7

Lewis makes a call from a telephone box.



He has **£2** in coins.

He uses these five coins to make the call.



How much money has he got **left from the £2**?



7

1 mark

**8**Put a tick (✓) in **each row** to complete this table.

One has been done for you.

	greater than $\frac{1}{2}$	less than $\frac{1}{2}$
<b>0.9</b>	✓	
<b>0.06</b>		
<b><math>\frac{11}{20}</math></b>		
<b>0.21</b>		

8

2 marks

**9**

Write in the missing digits to make this correct.



$$\begin{array}{r}
 \square 4 \square \\
 \times \quad 6 \\
 \hline
 2052
 \end{array}$$

9a

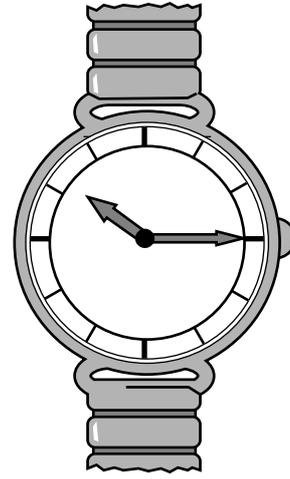
1 mark

9b

1 mark

10

This was the time on Selin's watch when she **set off** for a walk.



What time did the watch show 20 minutes **before** this?



10a

1 mark

What time did it show an hour and a half **after** she set off for the walk?



10b

1 mark

11

Calculate  $847 \div 7$



11

1 mark

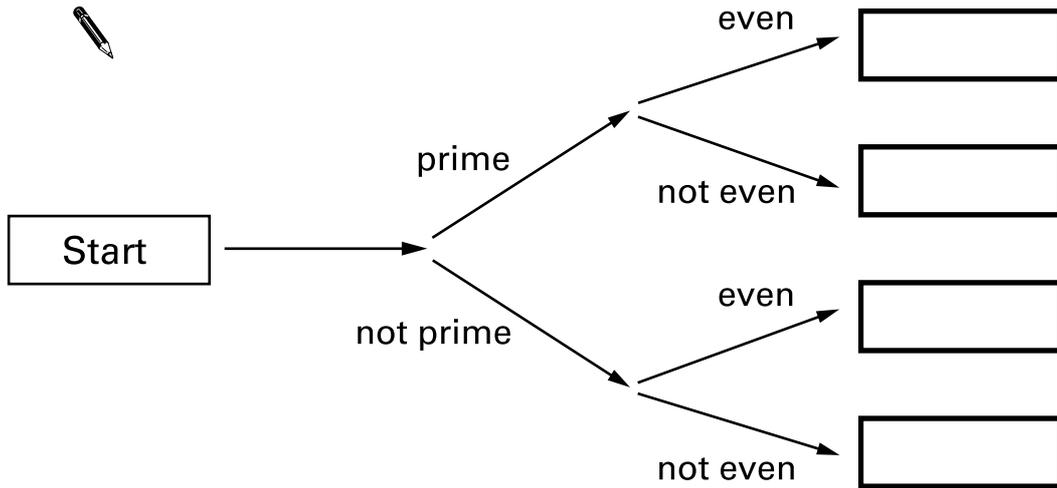
12

Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.

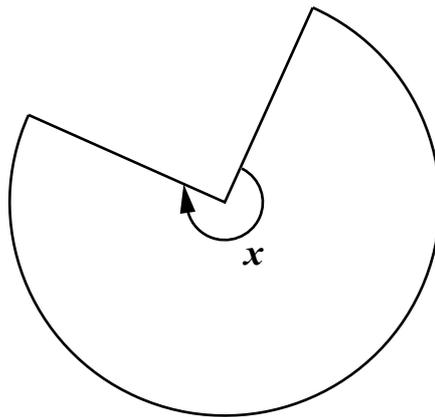
9      17      20



12  
2 marks

13

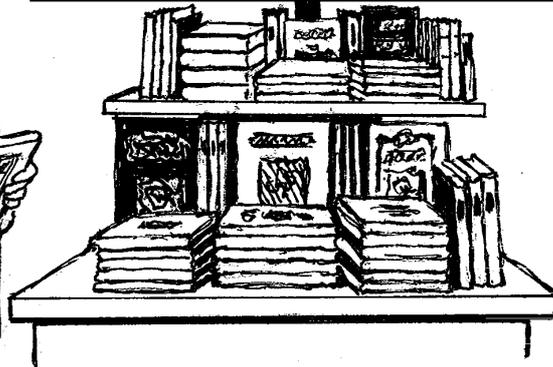
This shape is **three-quarters of a circle**.



How many degrees is **angle x**?

13  
1 mark

**Book Sale**  
Any 3 books for £14.50



Lee bought these **three books** in the sale for **£14.50**

How much money did he save altogether compared to the **full price** of the books?

Show your **working**. You may get a mark.

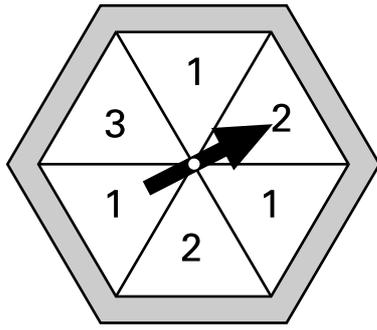
£

14  
2 marks

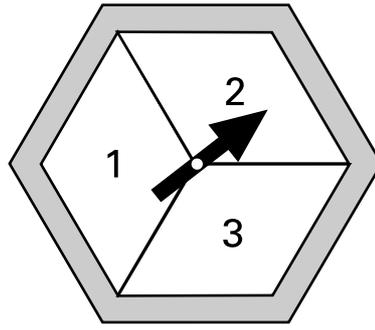
15

Here are two spinners, A and B.

Each one is a regular hexagon.



A



B

For each statement, put a **tick (✓)** if it is **true**.  
 Put a **cross (✗)** if it is **not true**.



Scoring '1' is more likely on A than on B.

Scoring '2' is more likely on A than on B.

Scoring '3' is as equally likely on A as on B.

15a  
1 mark

Zara spins both spinners.

The score on A is added to the score on B.

She says,

***'The sum of the scores on both spinners is certain to be less than 7'.***

Is she correct?  
Circle Yes or No.



Yes / No

Explain how you know.



.....

.....

.....

15b  
1 mark

16

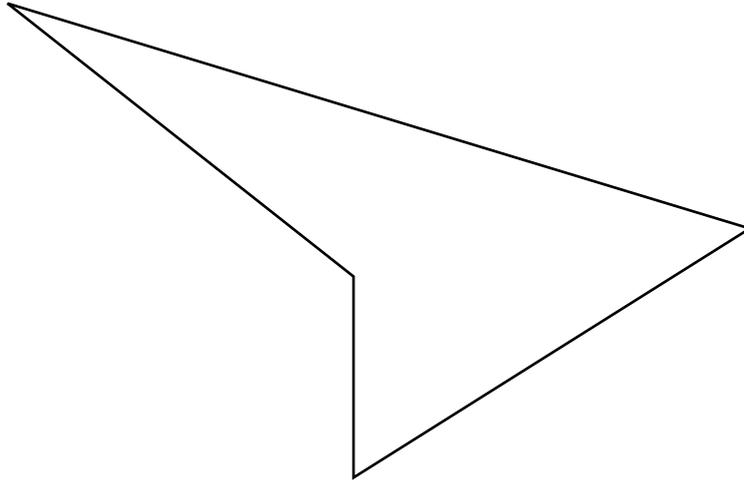
Calculate  $1025 - 336$



16

1 mark

17



Measure accurately the **longest side** of this shape.

Give your answer in millimetres.



17a

1 mark

Measure accurately the **smallest angle** in the shape.

Use a protractor (angle measurer).



17b

1 mark

**18**Calculate  $509 \times 24$ 

Show  
your **working**.  
You may get  
a mark.

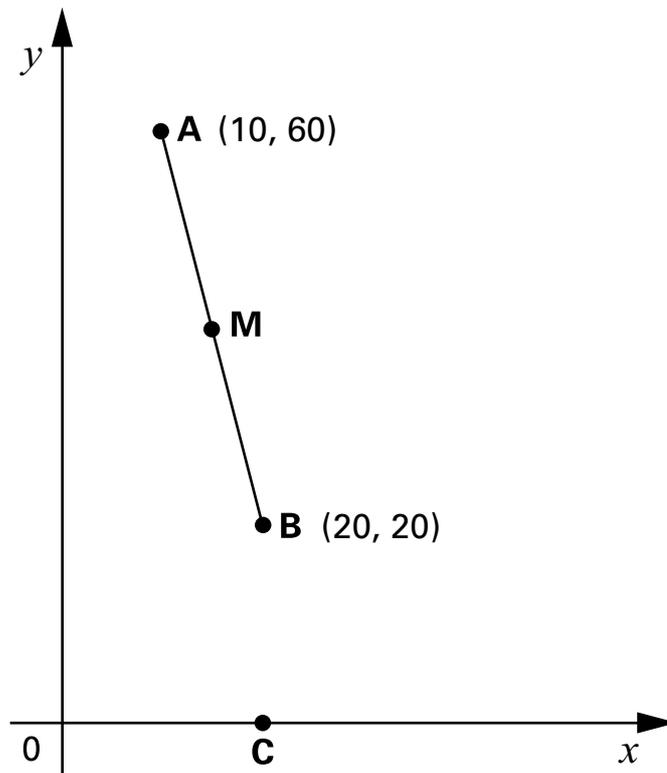
**19**Complete these fractions to make each equivalent to  $\frac{3}{5}$ 

$$\frac{\square}{10}$$

$$\frac{\square}{15}$$

$$\frac{12}{\square}$$

19  
1 mark



**A** is the point **(10, 60)**

**B** is the point **(20, 20)**

**M** is the midpoint of line AB.

Write the coordinates of **M**.




20a

1 mark

**C** is on the **x**-axis, directly **below B**.

Write the coordinates of **C**.



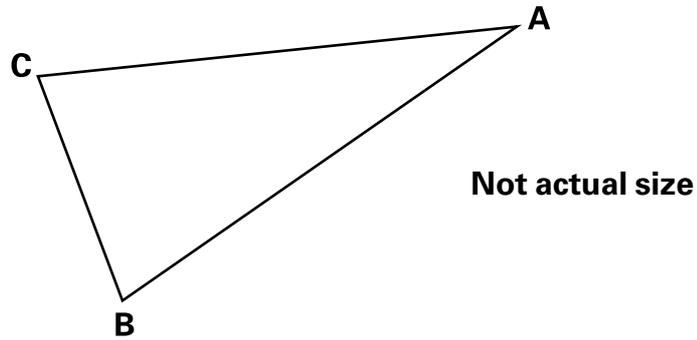

20b

1 mark

21

Triangle **ABC** is isosceles and has a perimeter of 20 centimetres.

Sides **AB** and **AC** are each **twice** as long as **BC**.



Calculate the length of the side **BC**.

Do not use a ruler.

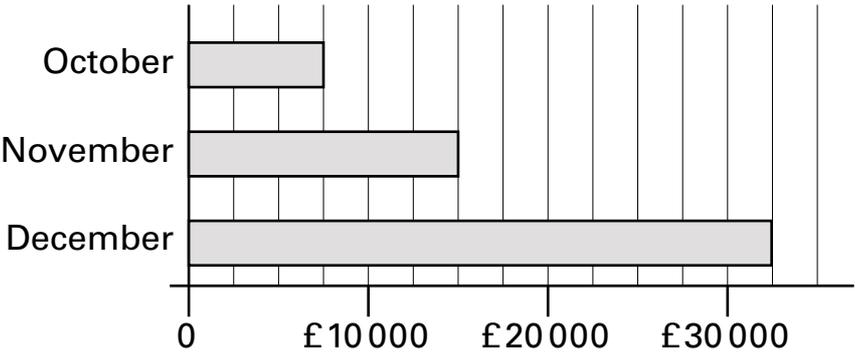
 Show your **working**. You may get a mark.

cm

21  
2 marks



This chart shows the amount of money spent in a toy shop in three months.



How much **more** money was spent in the shop in **December** than in **November**?



22a  
1 mark

Stepan says,

*'In November there was a 100% increase on the money spent in October.'*

Is he correct?  
Circle Yes or No.

 Yes / No

Explain how you can tell from the chart.

 .....

.....

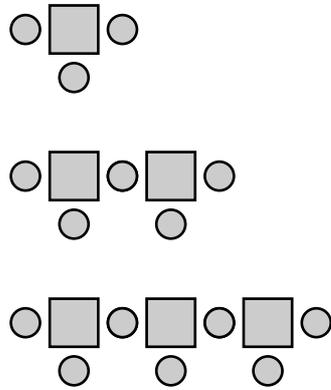
.....

22b  
1 mark



23

Here is a sequence of patterns made from squares and circles.



number of squares	number of circles
1	3
2	5
3	7

The sequence continues in the same way.

Calculate how many **squares** there will be in the pattern which has **25 circles**.



Show your **working**. You may get a mark.

23  
2 mark

24

Calculate **15%** of **460**



24

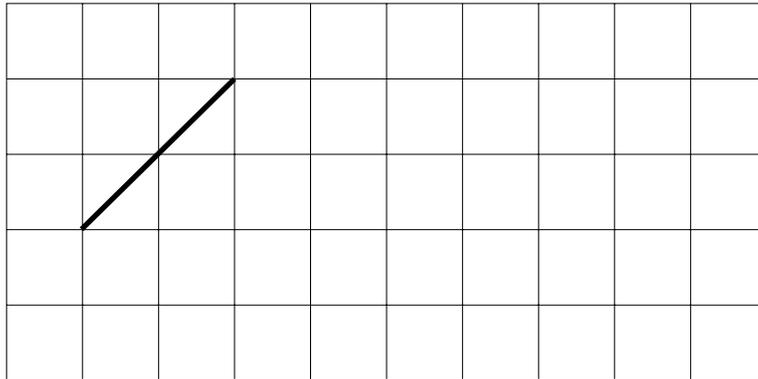
1 mark

25

This is a centimetre grid.

Draw **3 more lines** to make a **parallelogram** with an **area of  $10\text{cm}^2$**

Use a ruler.



25

1 mark

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