

MATHEMATICS

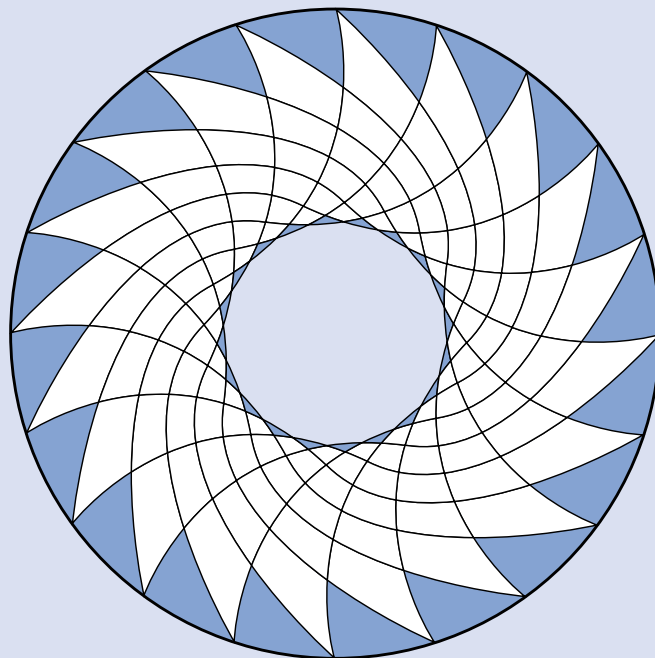
KEY STAGE 2 2001

TEST A

LEVELS
3-5

CALCULATOR NOT ALLOWED

PAGE	MARKS
3	
5	
7	
9	
11	
13	
15	
17	
TOTAL	



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.



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

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

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

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

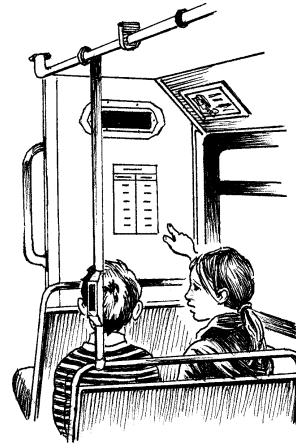
2

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?

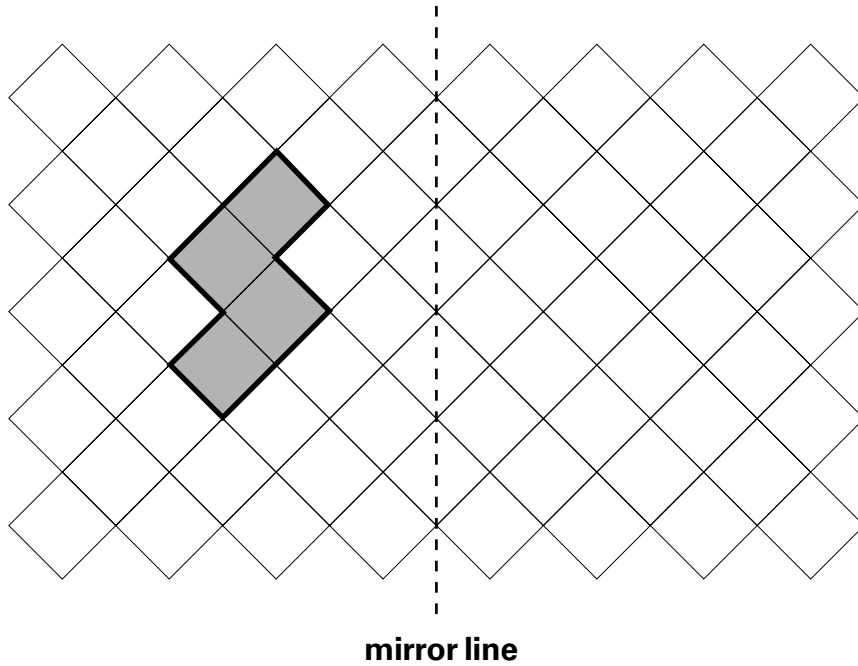


3b
1 mark

4

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

You may use a mirror or tracing paper.



1 mark 4

5

Circle the number **nearest to 1000**



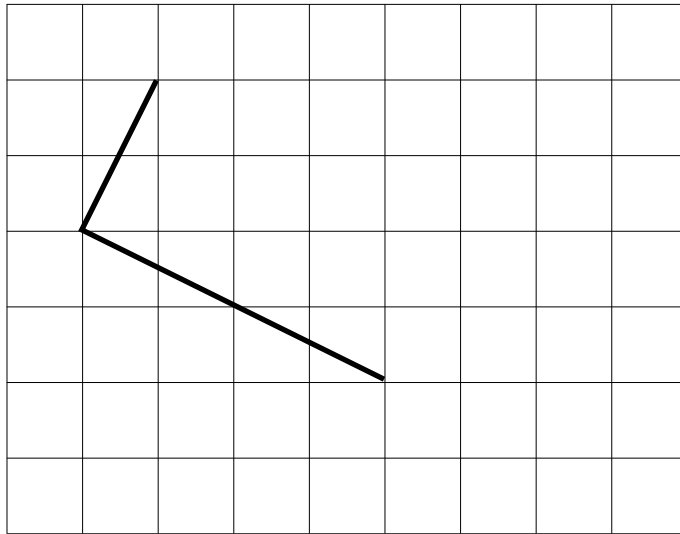
1060 1049 1100 960 899

1 mark 5

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

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

One has been done for you.

	greater than $\frac{1}{2}$	less than $\frac{1}{2}$
0.9	✓	
0.06		
$\frac{11}{20}$		
0.21		

8

2 marks

9

Write in the missing digits to make this correct.

	<input style="width: 30px; height: 30px; border: 1px solid black;" type="text"/>	4	<input style="width: 30px; height: 30px; border: 1px solid black;" type="text"/>
×			6
	2 0 5 2		
	2 0 5 2		

9a

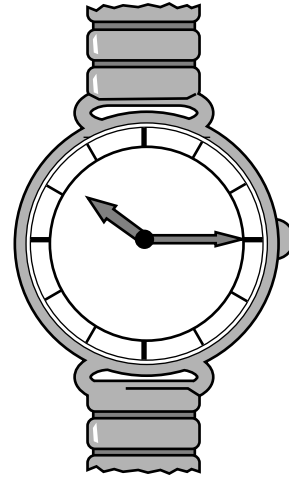
1 mark

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

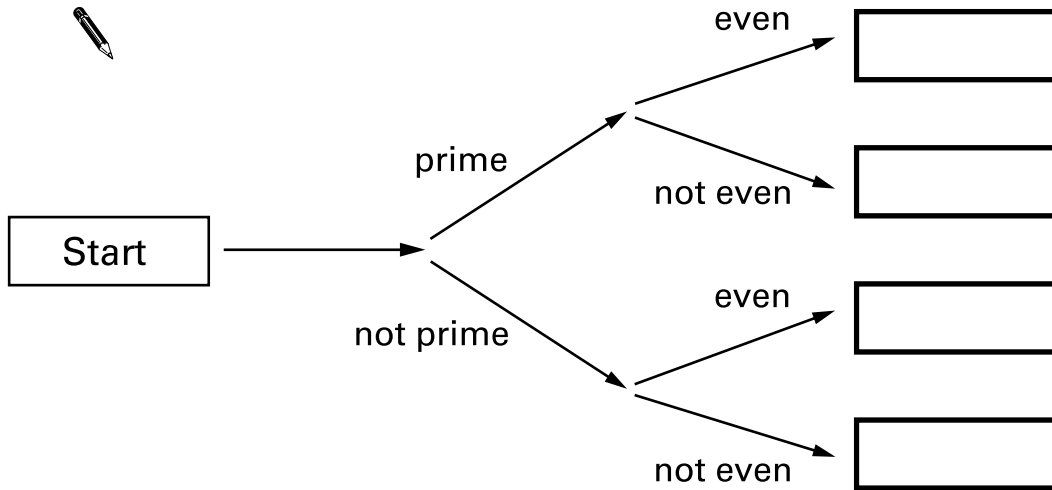
12

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.

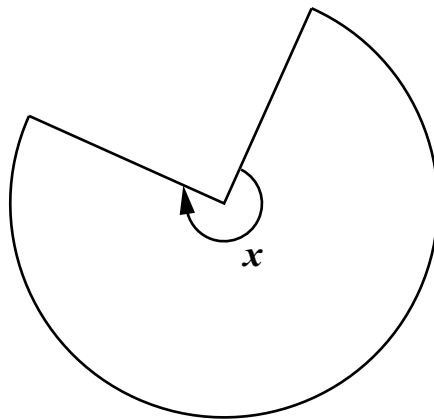
9 17 20



12
2 marks

13

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

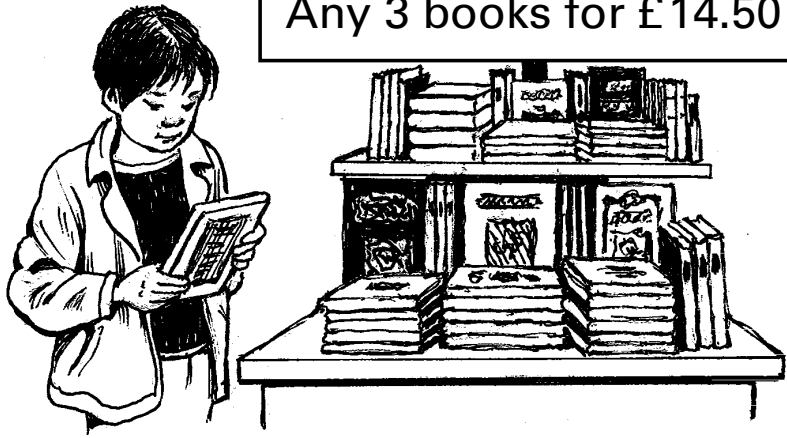


How many degrees is **angle x**?

○

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.

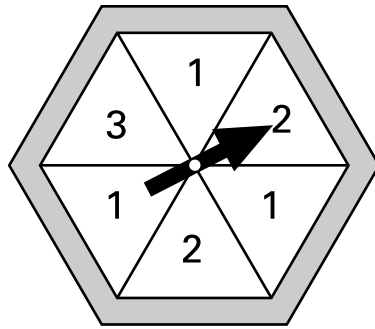
£

14
2 marks

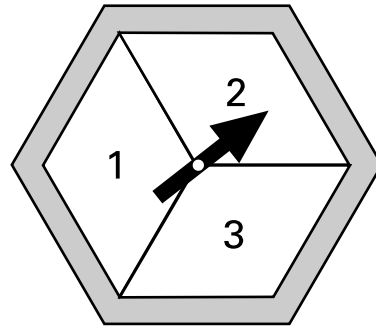
15

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

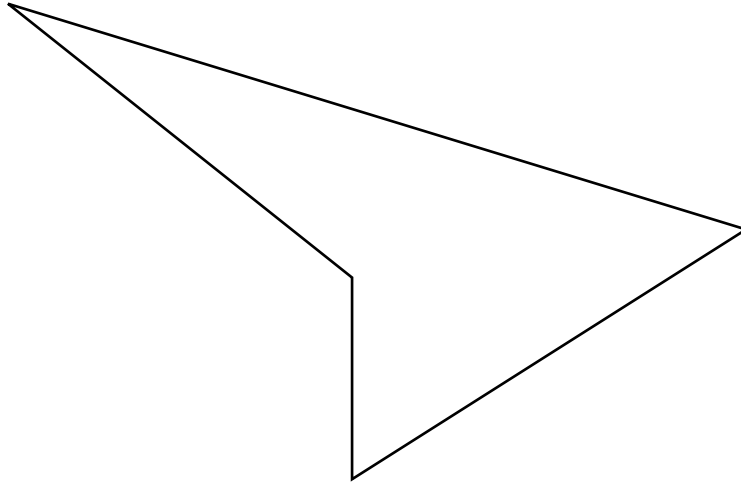
Calculate $1025 - 336$



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

18Calculate 509×24 

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

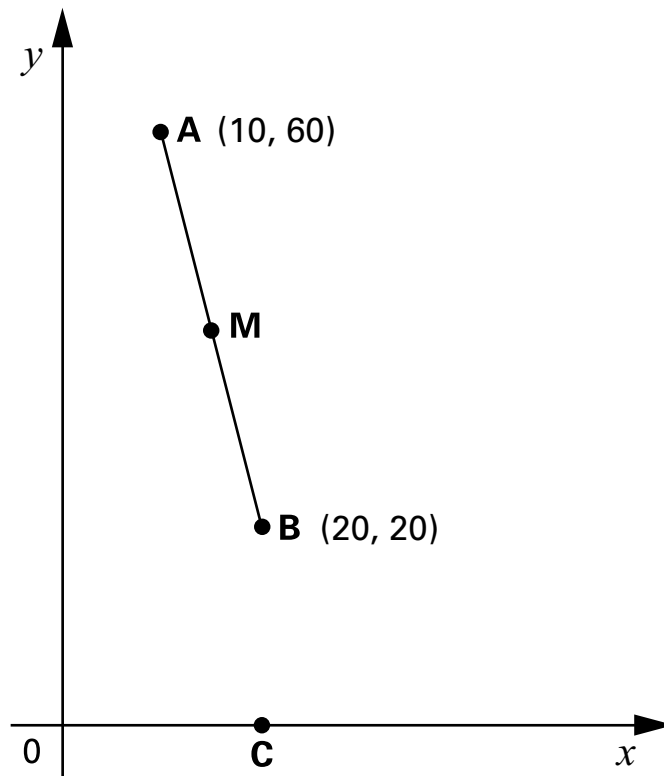
19Complete these fractions to make each equivalent to $\frac{3}{5}$ 

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

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

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

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**.



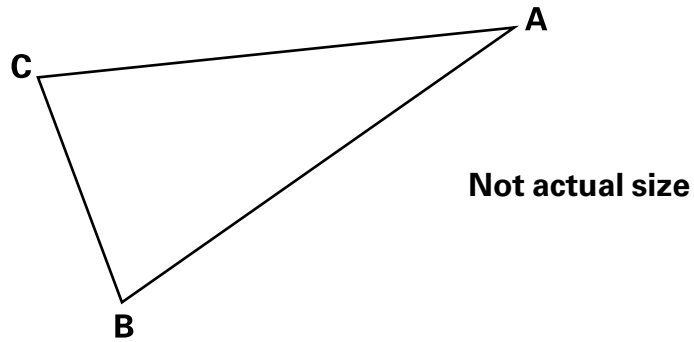
20b

1 mark

21

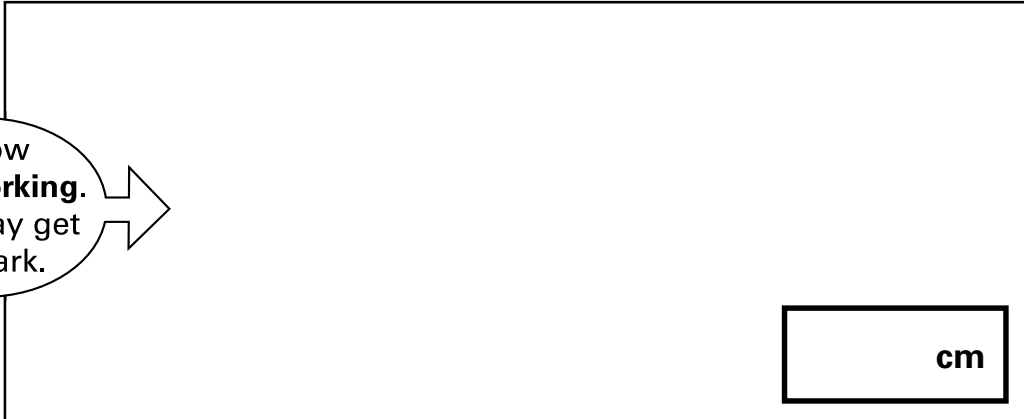
Triangle **ABC** is isosceles and has a perimeter of 20 centimetres.

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



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

Do not use a ruler.

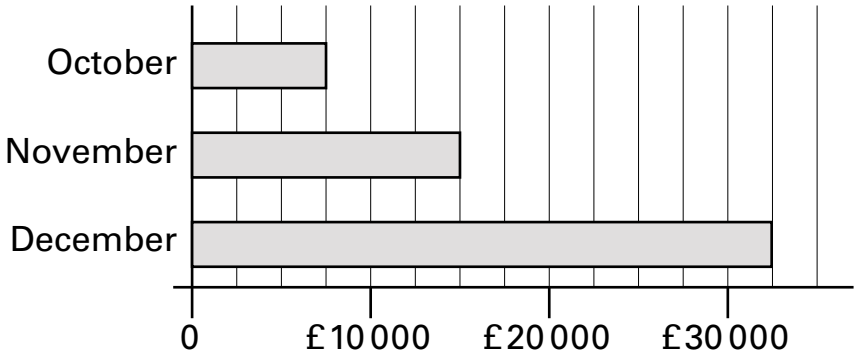
Show your **working**.
You may get a mark.

 **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.

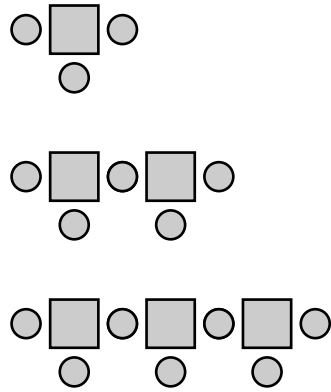


.....

.....

22b
1 mark

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**



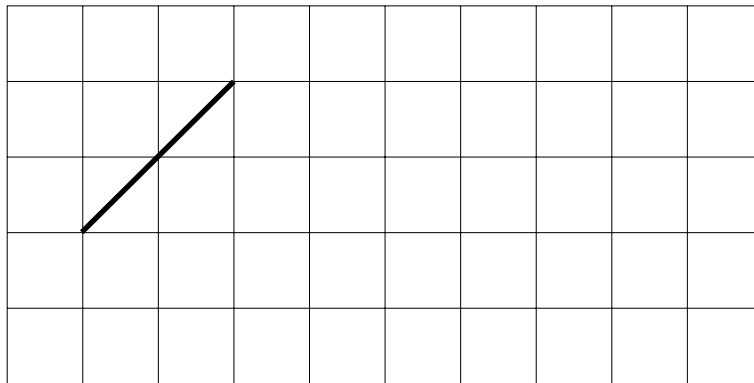
24
1 mark

25

This is a centimetre grid.

Draw **3 more lines** to make a **parallelogram** with an **area of 10cm^2**

Use a ruler.



25
1 mark

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