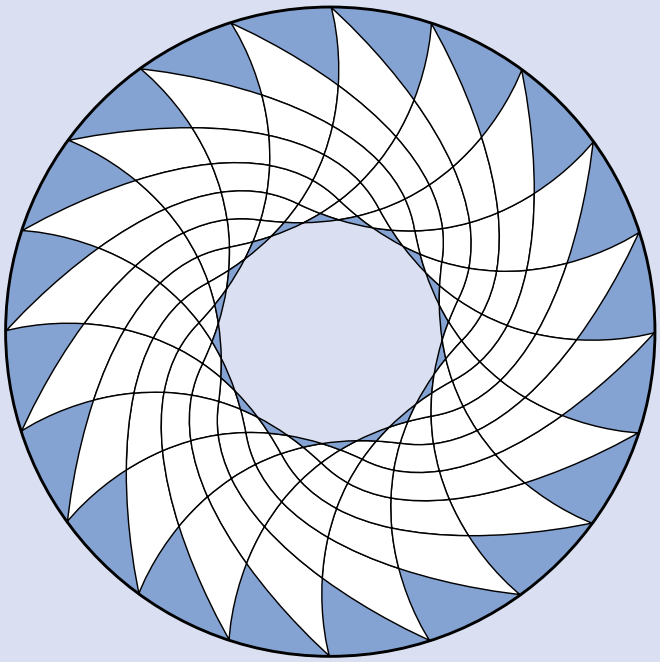
MATHEMATICS

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.

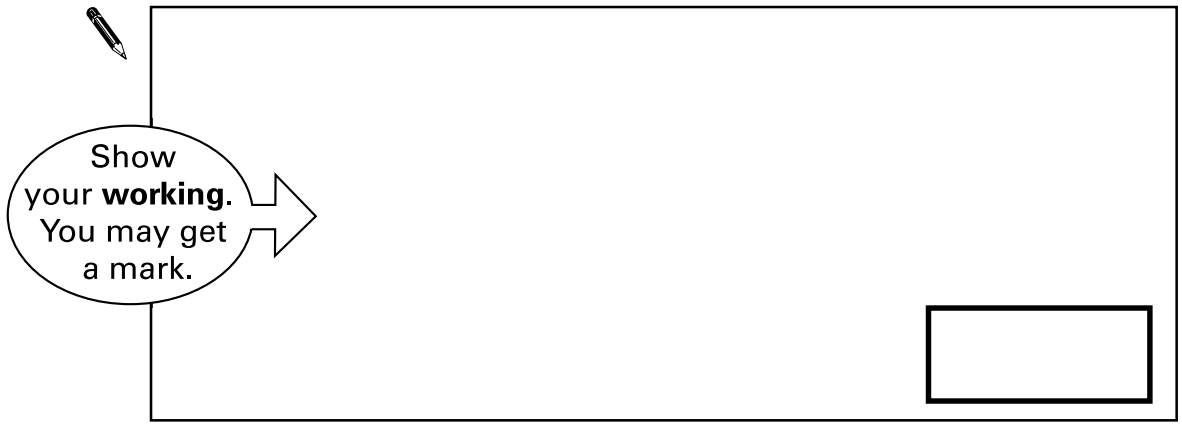
If you finish before the end, **go back and check your work**.

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 + ☐ = 110

(4 × 5) − ☐ = 12

60 × 3 = ☐

1a
1 mark

1b
1 mark

1c
1 mark

2

£5.40 £0.65 72p £10 £2.88

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

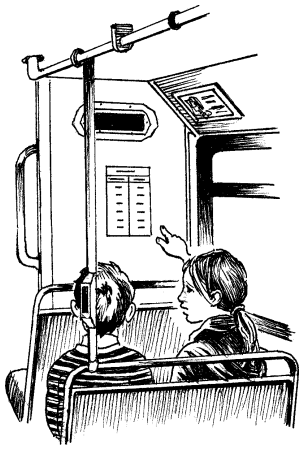
☐ ☐ ☐ ☐ ☐

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'.

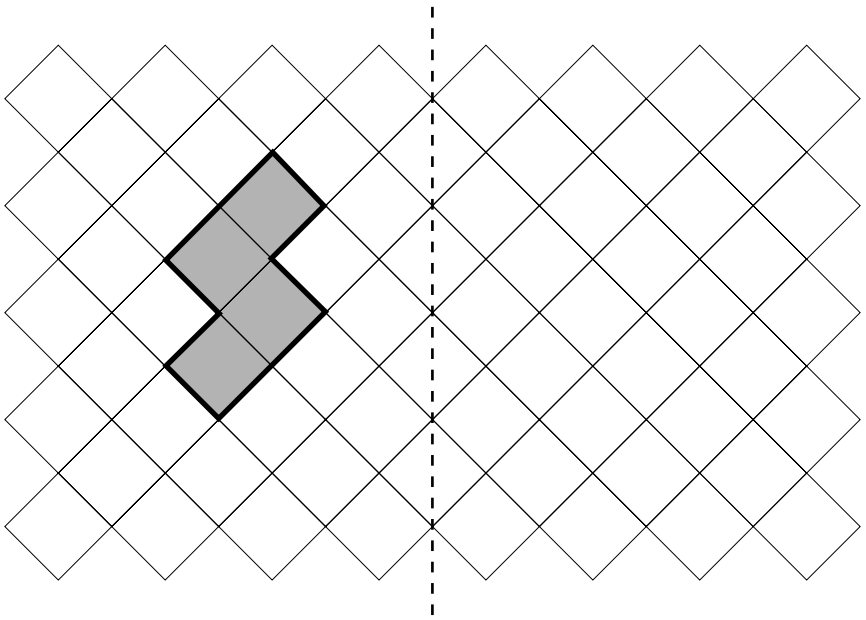
How much is Millie's **new** bus fare?

3b

1 mark

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

You may use a mirror or tracing paper.



mirror line

4

1 mark

5 Circle the number **nearest to 1000**

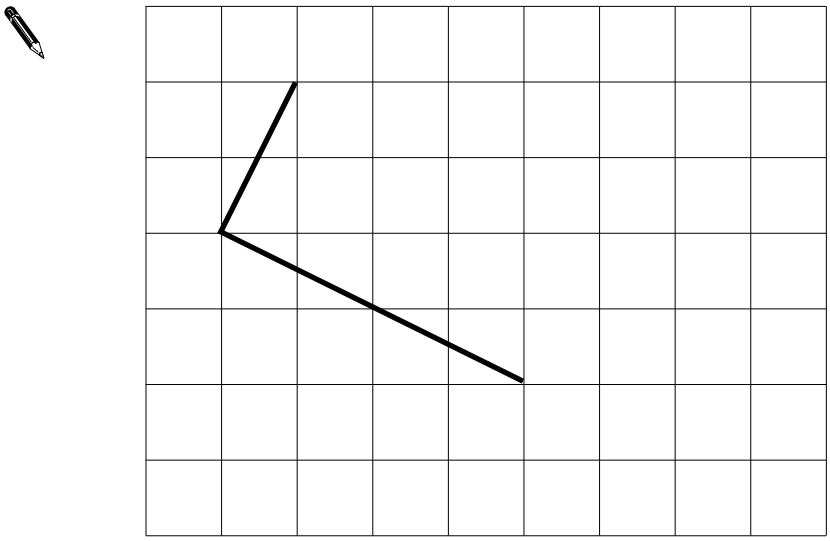
1060 1049 1100 960 899

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

Total

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

One has been done for you.

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

8

2 marks

9 Write in the missing digits to make this correct.

$$\square\,4\,\square \times 6 = 2052$$

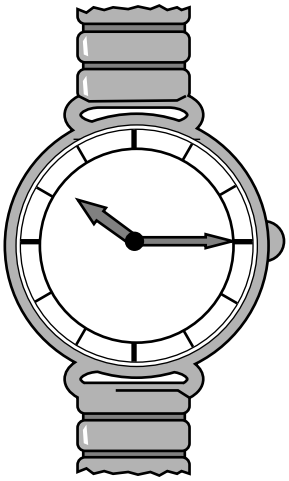
9a

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 ÷ 7**

11

1 mark

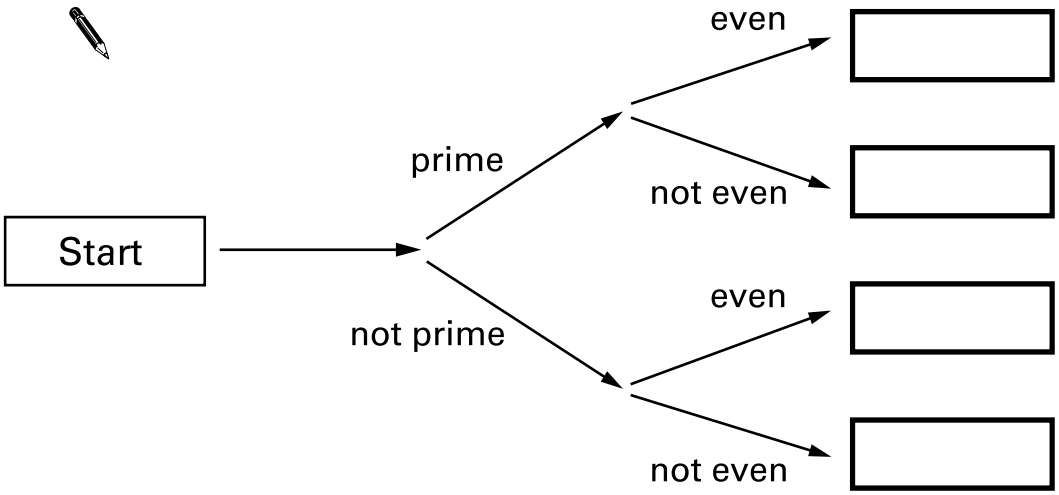
Total

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.

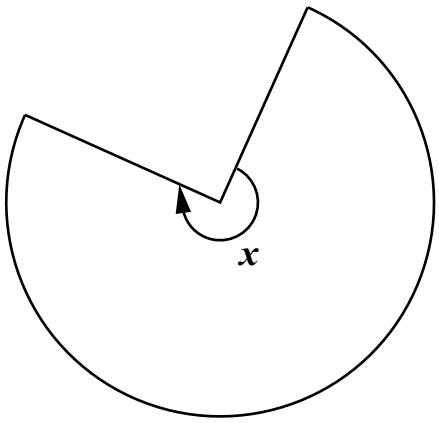
9 17 20



12

2 marks

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



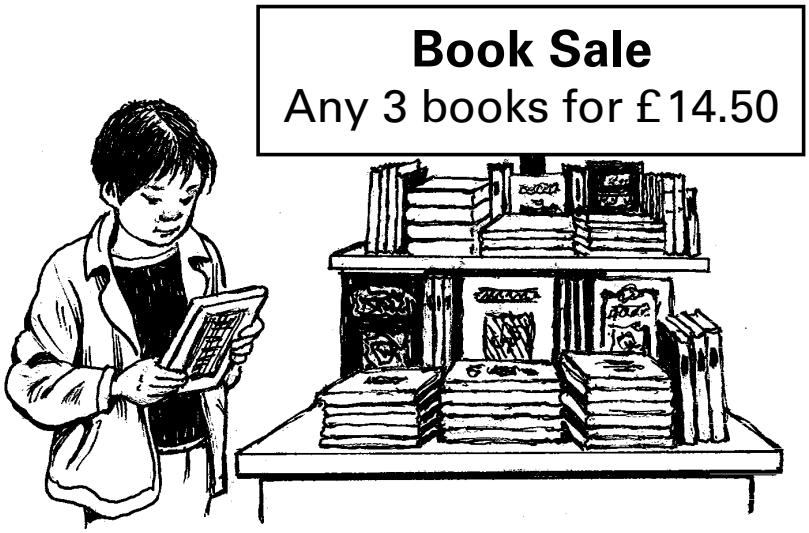
How many degrees is **angle x**?

°

13

1 mark

14



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.

£

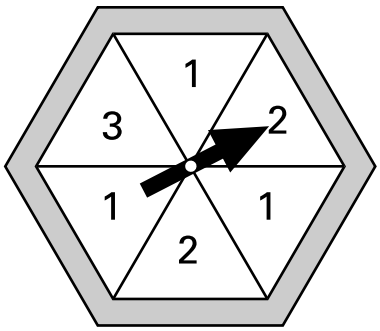
14

2 marks

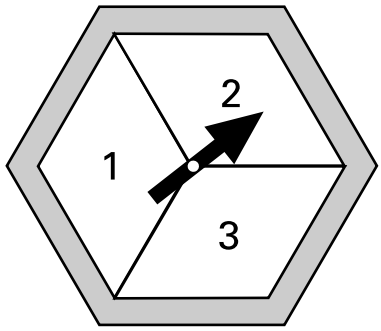
Total

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 <u>certain</u> to be less than 7'.

Is she correct?
Circle Yes or No.

Yes / No

Explain how you know.

. . . . . .

. . . . . .

. . . . . .

15b

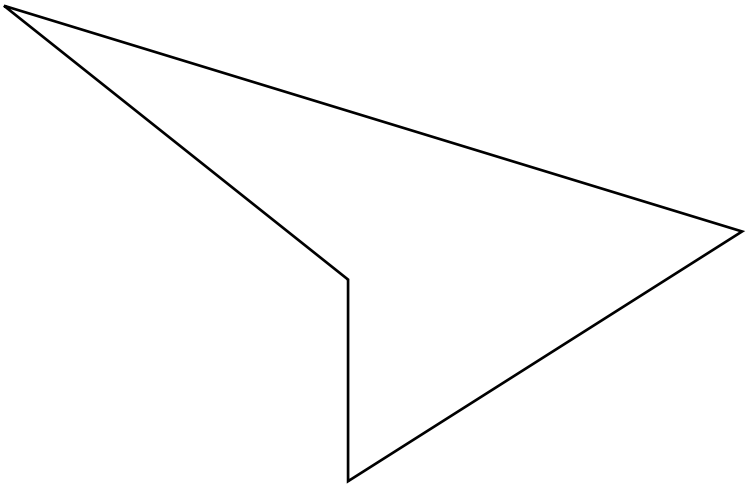
1 mark

16 Calculate **1025 – 336**

16

1 mark

17



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

Give your answer in millimetres.

mm

17a

1 mark

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

Use a protractor (angle measurer).

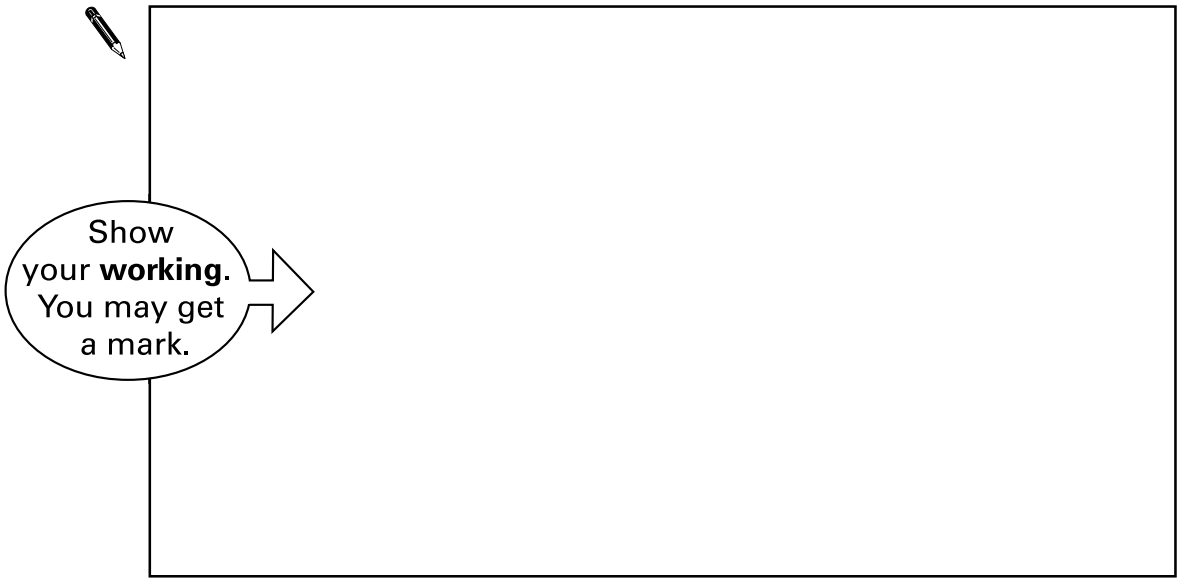
°

17b

1 mark

Total

18 Calculate **509 × 24**



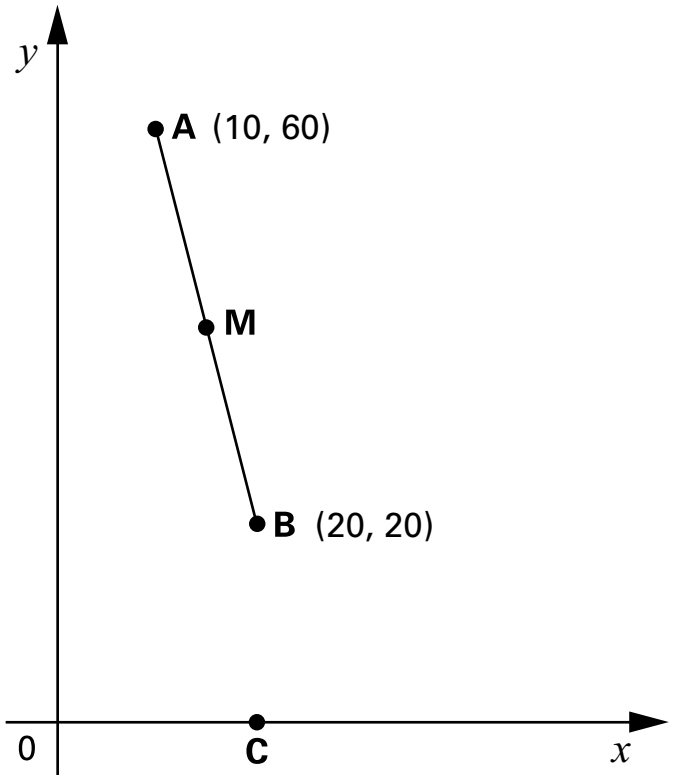
19 Complete these fractions to make each equivalent to $\frac{3}{5}$

$\frac{\square}{10}$ $\frac{\square}{15}$ $\frac{12}{\square}$

19

1 mark

20



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**.

(,)

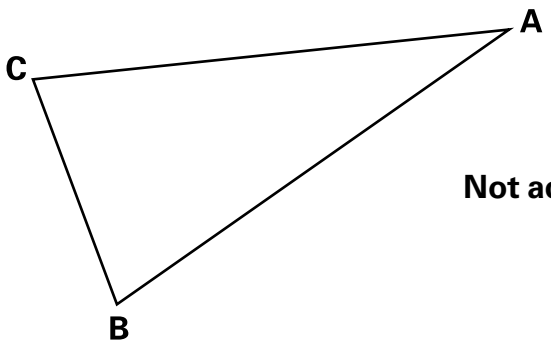
20b

1 mark

Total

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

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



Not actual size

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

Do not use a ruler.

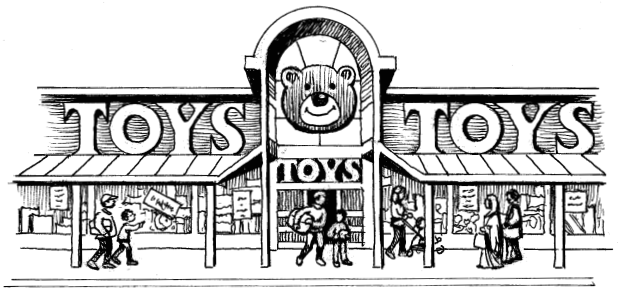
Show your **working**. You may get a mark.

cm

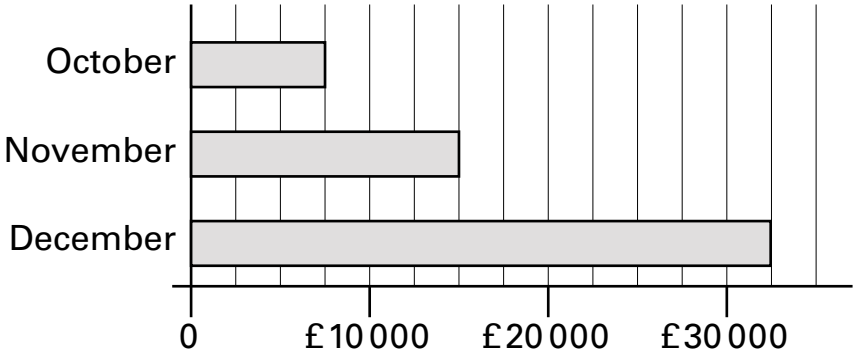
21

2 marks

22



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.

. . . . . .

. . . . . .

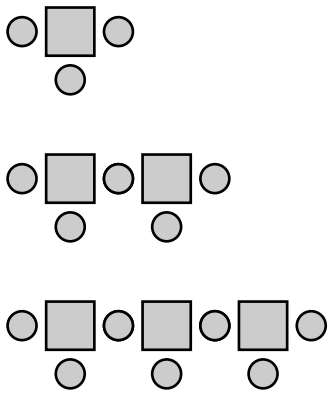
. . . . . .

22b

1 mark

Total

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**

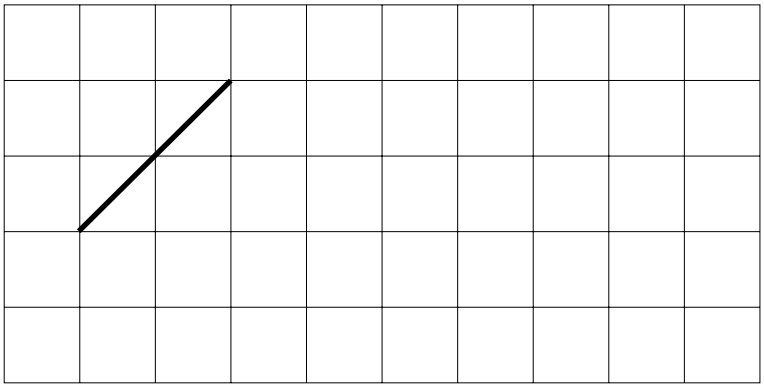
24

1 mark

25 This is a centimetre grid.

Draw **3 more lines** to make a **parallelogram** with an **area** of **10cm²**

Use a ruler.



25

1 mark

Total

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