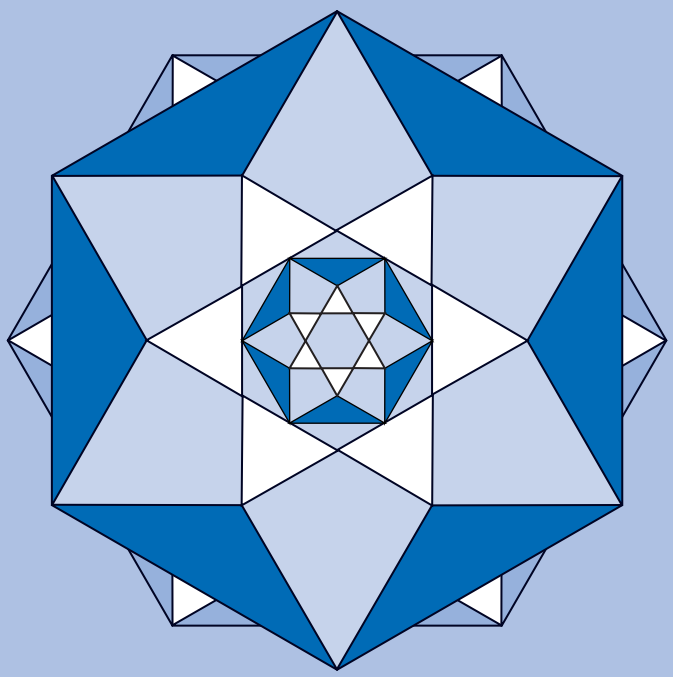
# MATHEMATICS

**KEY STAGE 2 2002**

**TEST A** **LEVELS 3–5**

**CALCULATOR NOT ALLOWED**

| PAGE | MARKS |
|---|---|
| 5 | |
| 7 | |
| 9 | |
| 11 | |
| 13 | |
| 15 | |
| 17 | |
| 18 | |
| TOTAL | |



**First Name**

**Last Name**

**School**

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# 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.

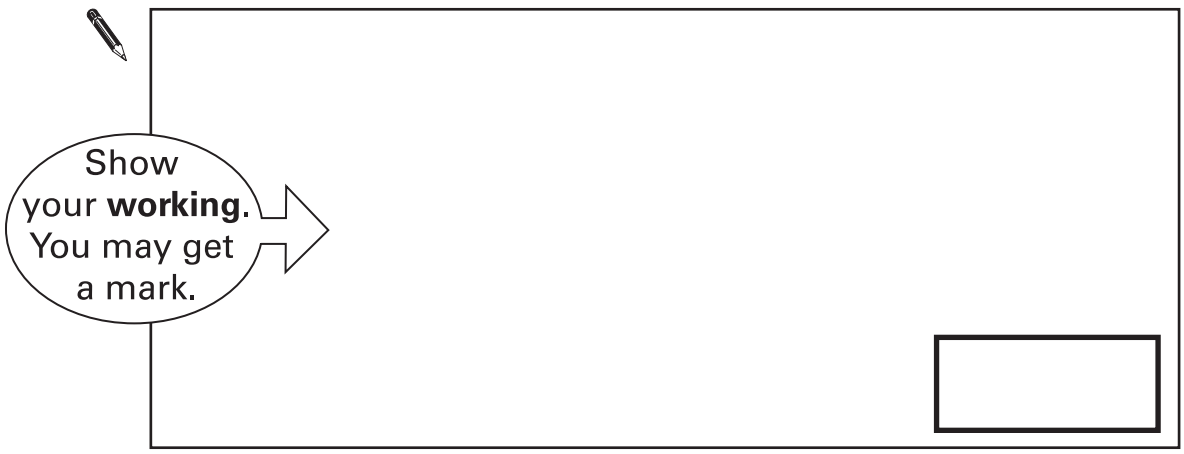
If you finish before the end, **go back and check your work**.

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

This shows where you need to put the answer.

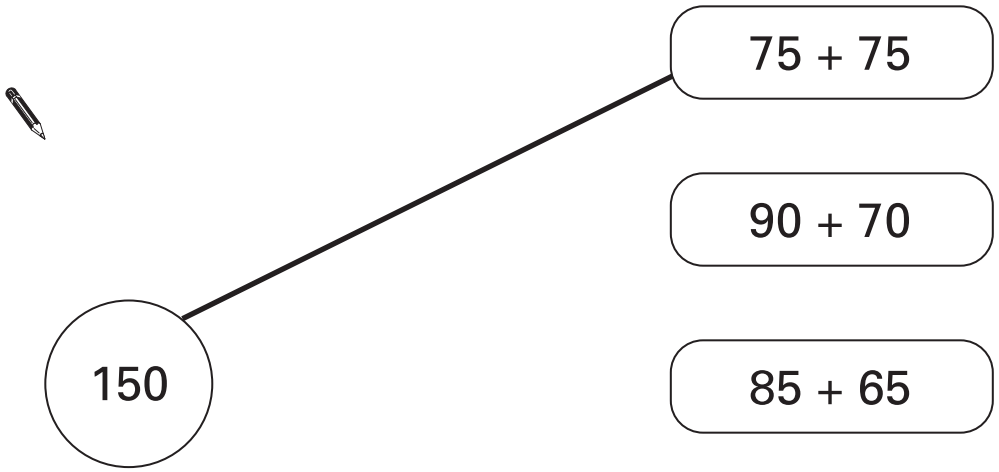
If you need to do working out, you can use any space on a page.

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




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

**1** Draw lines to join the circle to **two more** number cards which make **150**




1

2 marks

**2** Write in the missing numbers.

5 × 70 = ☐

2a

1 mark

4 × ☐ = 200

2b

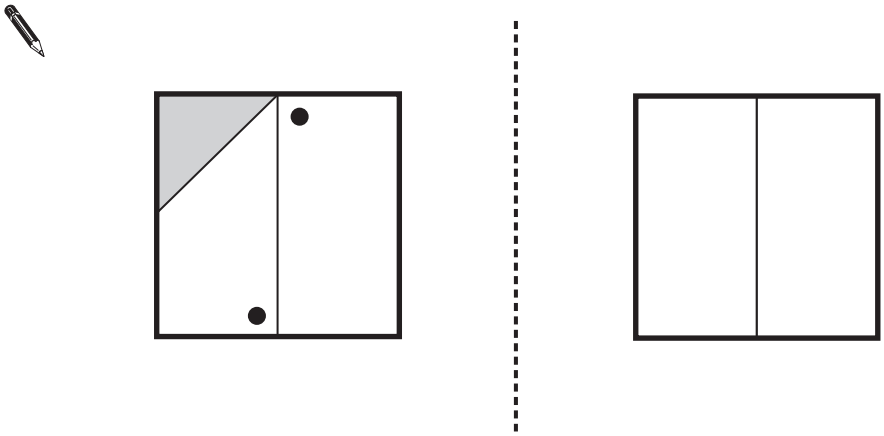
1 mark

**3** Here is a square with a design on it.

The square is reflected in the mirror line.

Draw the missing triangle and dots on the reflected square.

You may use a mirror or tracing paper.



**mirror line**

3

1 mark

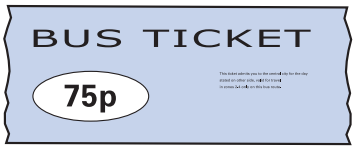


Total

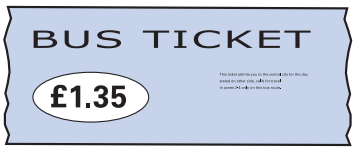
**4** Asif, Vicky and Nita go to town by bus.

This is what they pay.

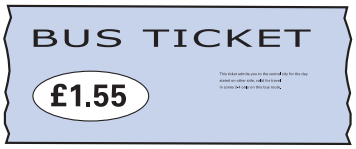
**Asif**




**Vicky**




**Nita**




How much **more** does **Nita** pay than **Asif**?

4a

1 mark

Vicky then takes **another** bus from town to visit her auntie.

She pays **90p** on this bus.

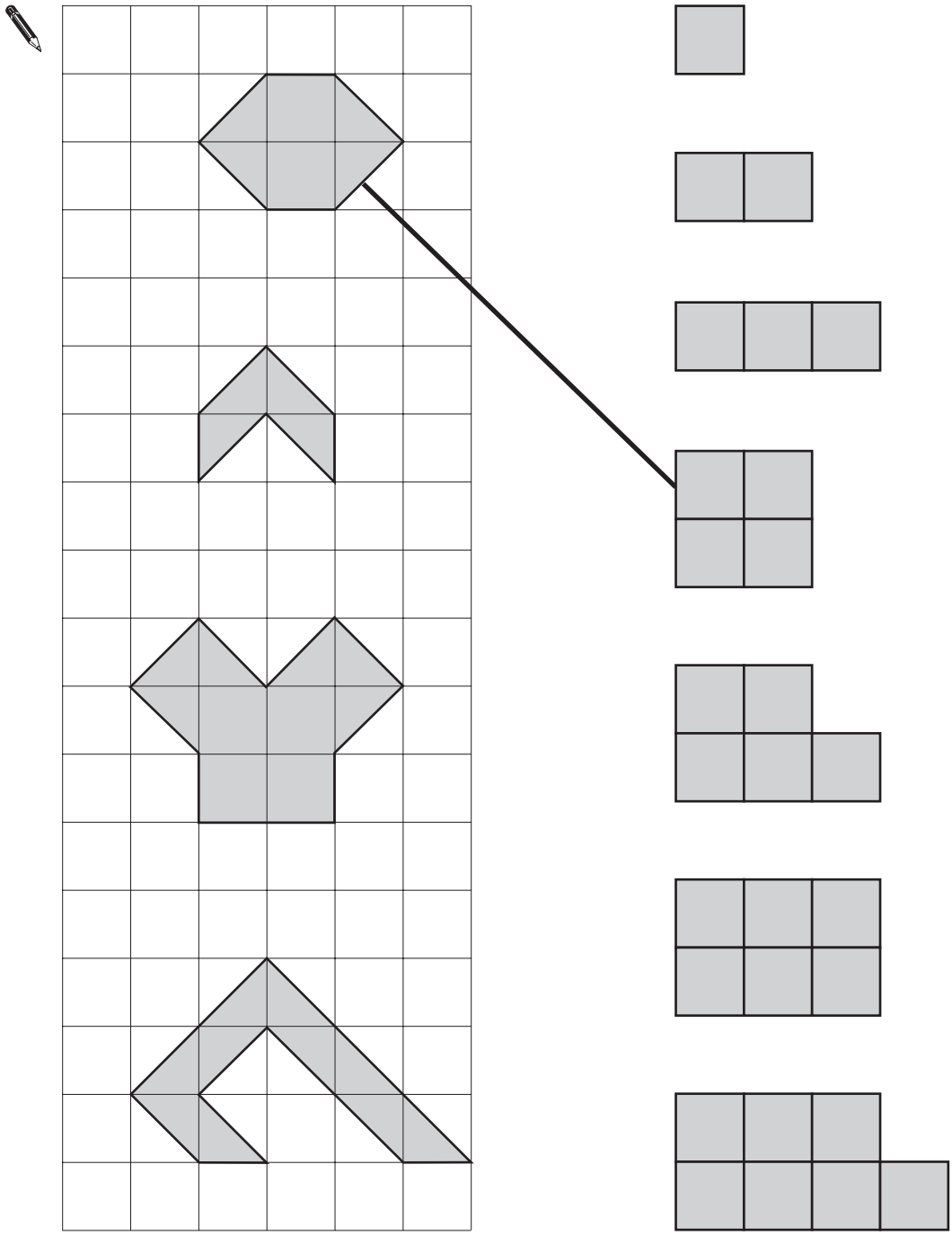
How much has Vicky paid **altogether** for her two bus tickets?

4b

1 mark

**5** Match each shape on the left to one with **equal area** on the right.

One has been done for you.



5

2 marks

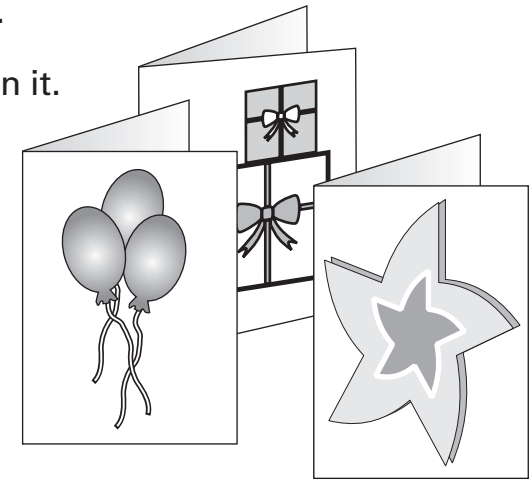


Total

**6** A shop sells greetings cards.

Each card has a price code on it.

These are the codes.



| code | price |
|---|---|
| AA | 75p |
| BB | £1.15 |
| CC | £1.55 |
| DD | £1.70 |
| EE | £1.99 |

Tina buys two cards.

One card has code **AA** on it.
The other card has code **DD** on it.

How much does Tina pay?

£ 6a

1 mark

Omar buys a card. He pays with a £2 coin.

He gets 45p change.

What is the **code** on his card?

. . . . . 6b

1 mark

**7** Circle all the **multiples of 8** in this list of numbers.

18 32 56 68 72

7
1 mark

**8** Tick (✓) **two** cards that give a **total of 5**

| | | |
|---|---|---|
| $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ |
| $3\frac{1}{2}$ | $3\frac{3}{4}$ | $4\frac{1}{4}$ |

8
1 mark

**9**

| | | | |
|---|---|---|---|
| 3 | 8 | 9 | 1 |

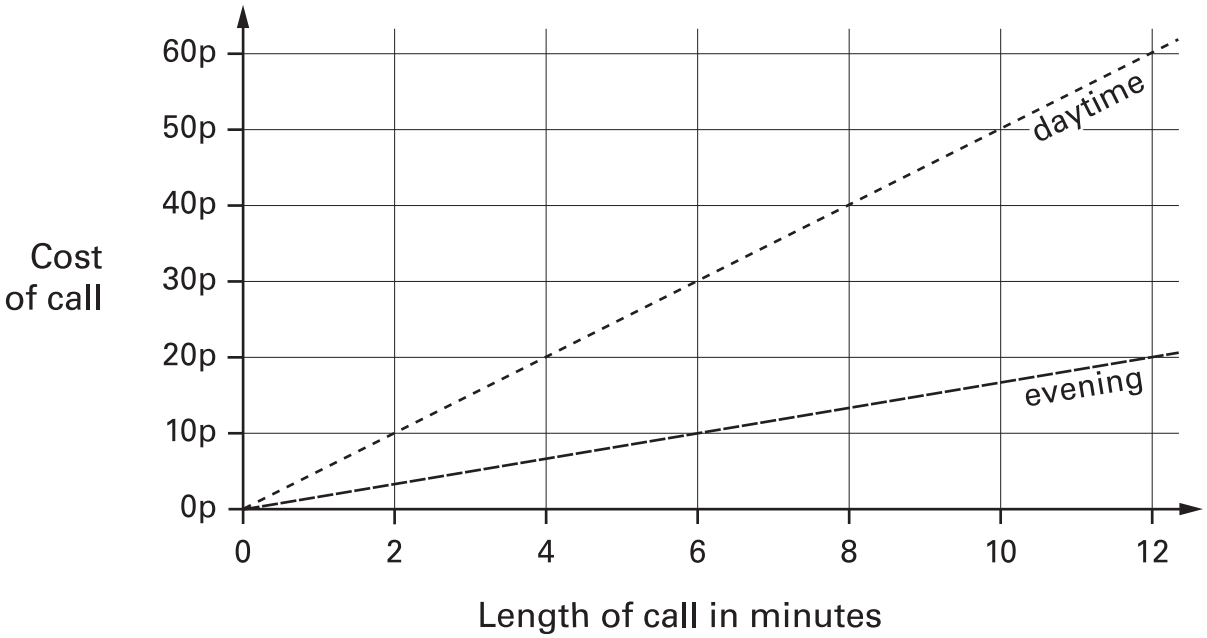
Choose **three** of these number cards to make an **even** number that is **greater than 400**

9
1 mark



Total

**10** This graph shows the cost of phone calls in the daytime and in the evening.




How much does it cost to make a **9 minute** call in the **daytime**?

p

10a

1 mark

How much **more** does it cost to make a **6 minute** call in the **daytime** than in the **evening**?

p

10b

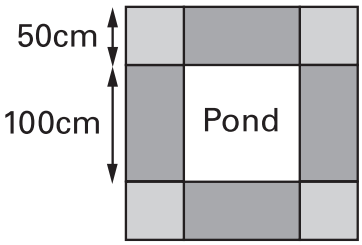
1 mark

**11** Mr Singh buys paving slabs to go around his pond.

**PAVING SLABS**

**£1.95** each — Square slabs 50cm by 50cm

**£3.50** each — Rectangular slabs 100cm by 50cm




He buys 4 rectangular slabs and 4 square slabs.

What is the total cost of the slabs he buys?

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

£

11a
2 marks

Mr Singh says,

***'It would cost more to use square slabs all the way round.'***

Explain why he is correct.

. . . . . .

. . . . . .

. . . . . .

11b
1 mark



Total

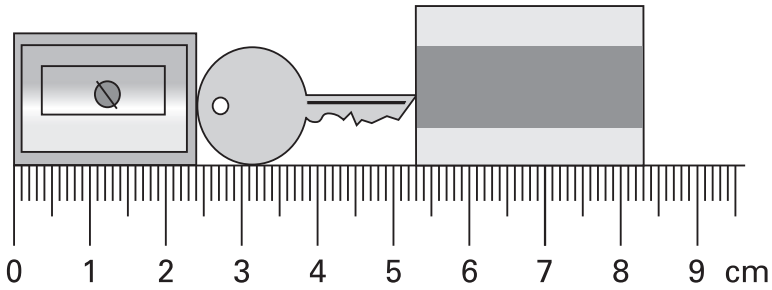
**12** Write in the missing digits.

| 4 | | 4 | + | 3 | 8 | | = | 8 | 5 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|

12
1 mark

**13** Here are a pencil sharpener, a key and a rubber.

**Actual size**




What is the length of **all three things** together?

Give your answer in **millimetres**.

mm

13a
1 mark

What is the length of the **key**?

Give your answer in **millimetres**.

mm

13b
1 mark

**14** Calculate **417 × 20**

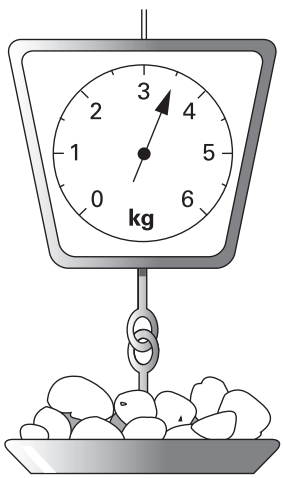
14

1 mark

**15** This table shows the weight of some fruits and vegetables.

Complete the table.

| | grams | kilograms |
|---|---|---|
| potatoes | 3500 | 3.5 |
| apples | | 1.2 |
| grapes | 250 | |
| ginger | | 0.03 |




15

2 marks



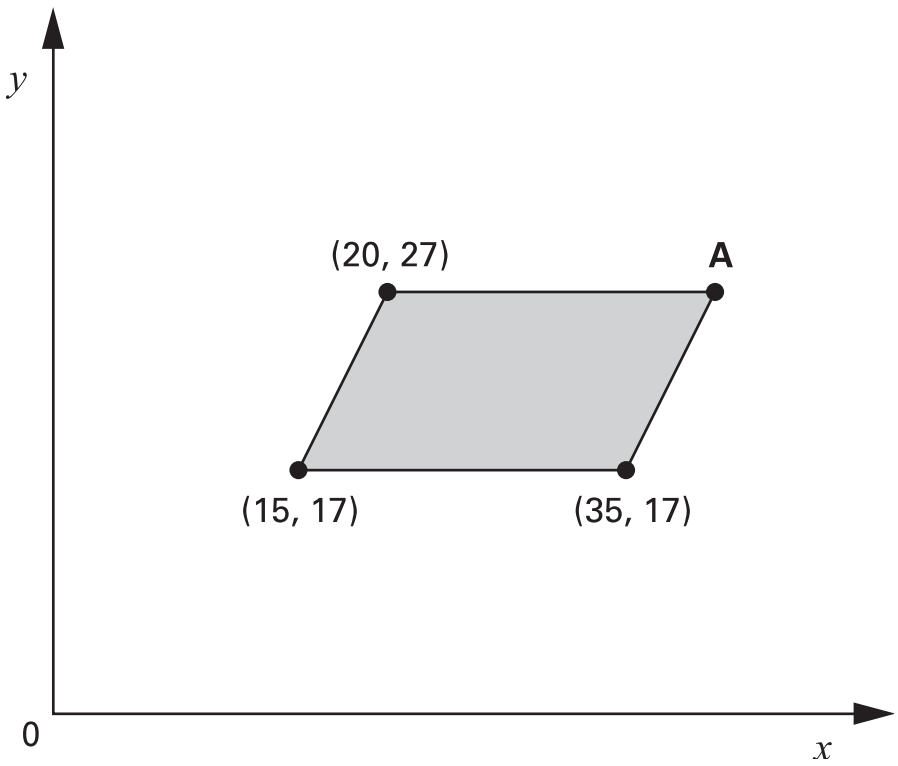
Total

**16** Calculate **15.05 – 14.84**

16

1 mark

**17** The shaded shape is a parallelogram.




Write in the coordinates of point **A**.

( , )

17

1 mark

**18**

6 green apples for 75p

10 red apples for 90p

Jason bought some bags of green apples and some bags of red apples.

He spent **£4.20**

How many **bags** of each type of apple did he buy?

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

☐ **bags** of **green** apples ☐ **bags** of **red** apples

18a

2 marks

Nika and Hassan bought some bags of apples.

Nika says,

***'I bought more apples than Hassan, but I spent less money.'***

Explain how this is possible.

. . . . . .

. . . . . .

. . . . . .

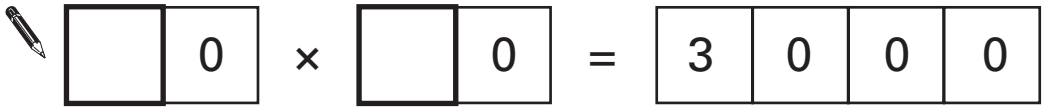
18b

1 mark



Total

**19** Write in the **two** missing digits.



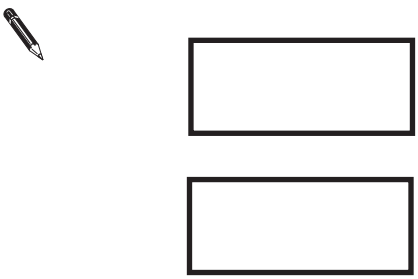

19
1 mark

**20** A sequence starts at **500** and **80** is **subtracted** each time.

500 420 340 ...

The sequence continues in the same way.

Write the **first two numbers** in the sequence which are **less than zero**.



20
2 marks

**21** Dan has a bag of seven counters numbered **1 to 7**
Abeda has a bag of twenty counters numbered **1 to 20**

Each chooses a counter from their own bag without looking.

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

Dan is **more likely** than Abeda to choose a **'5'** ☐

They are both **equally likely** to choose **a number less than 3** ☐

Dan is **more likely** than Abeda to choose an **odd number.** ☐

Abeda is **less likely** than Dan to choose a **'10'** ☐

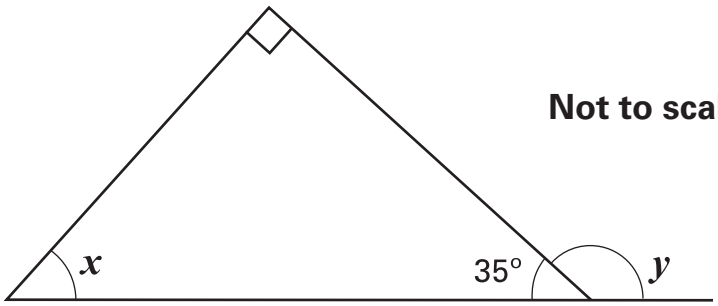
21
2 marks

**22** Calculate **924 ÷ 22**

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

22
2 marks

**23** Look at this diagram.




**Not to scale**

Calculate the size of angle $x$ and angle $y$.

Do **not** use a protractor (angle measurer).

$x =$ ☐ °

23a

1 mark

$y =$ ☐ °

23b

1 mark

**24** Which is larger, $\frac{1}{3}$ or $\frac{2}{5}$?

☐

Explain how you know.

. . . . . .

. . . . . .

. . . . . .

24

1 mark



Total

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