

MATHEMATICS

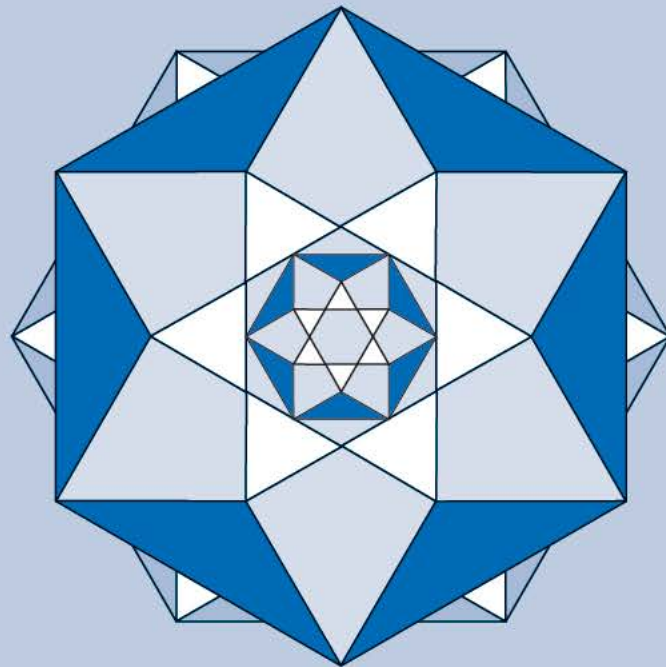
KEY STAGE 2 2002

TEST A

LEVELS
3-5

CALCULATOR NOT ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
18	
TOTAL	



First Name

Last Name

School

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**.

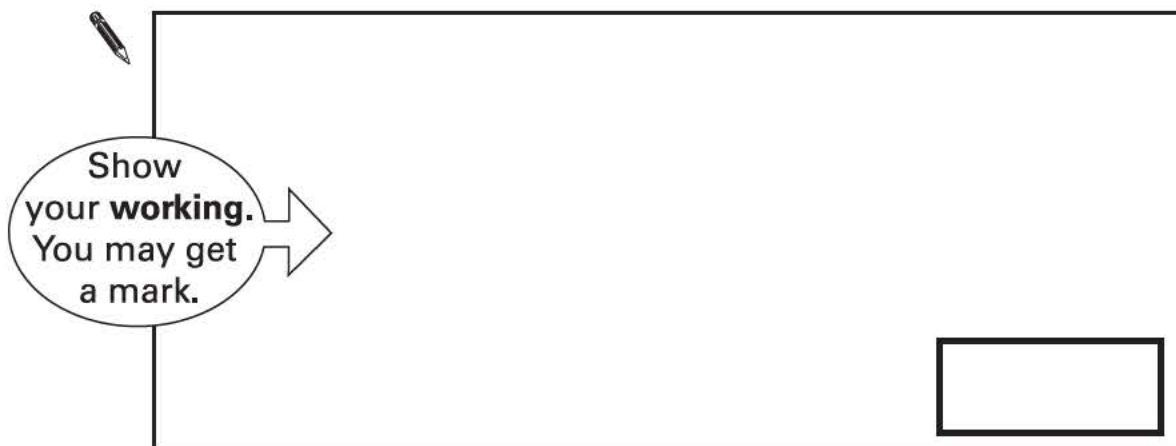
Follow the instructions for each question carefully.



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**

150

$75 + 75$

$90 + 70$

$85 + 65$

$450 - 300$

$220 - 80$

1
2 marks

2

Write in the missing numbers.

$5 \times 70 = \square$

$4 \times \square = 200$

2a
1 mark

2b
1 mark

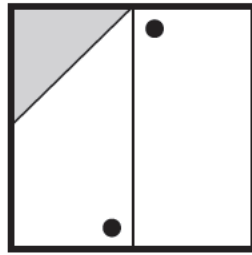
3

Here is a square with a design on it.

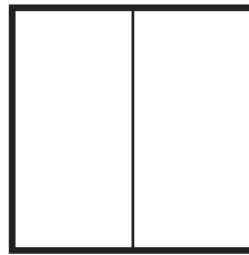
The square is reflected in the mirror line.

Draw the missing triangle and dots on the reflected square.

You may use a mirror or tracing paper.

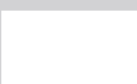


mirror line



3

1 mark



4

Asif, Vicky and Nita go to town by bus.

This is what they pay.



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?



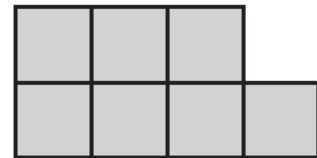
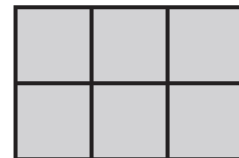
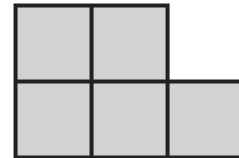
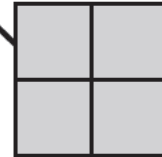
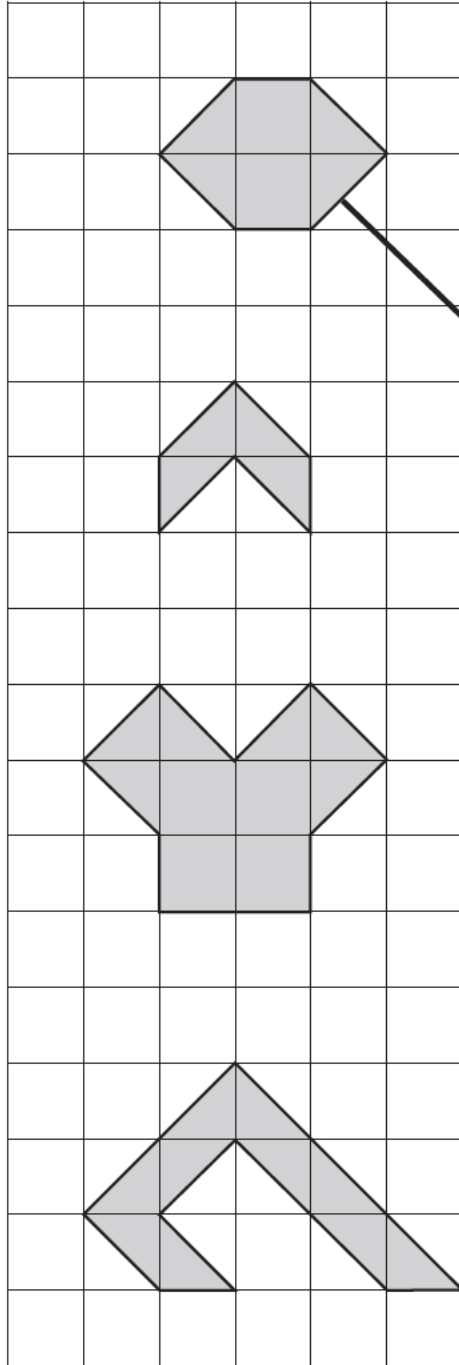
4b

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



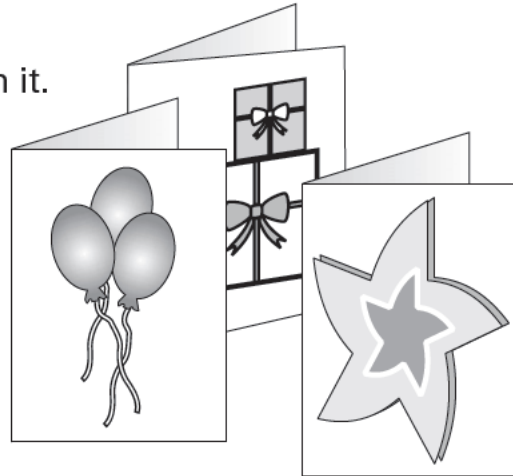
6

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**



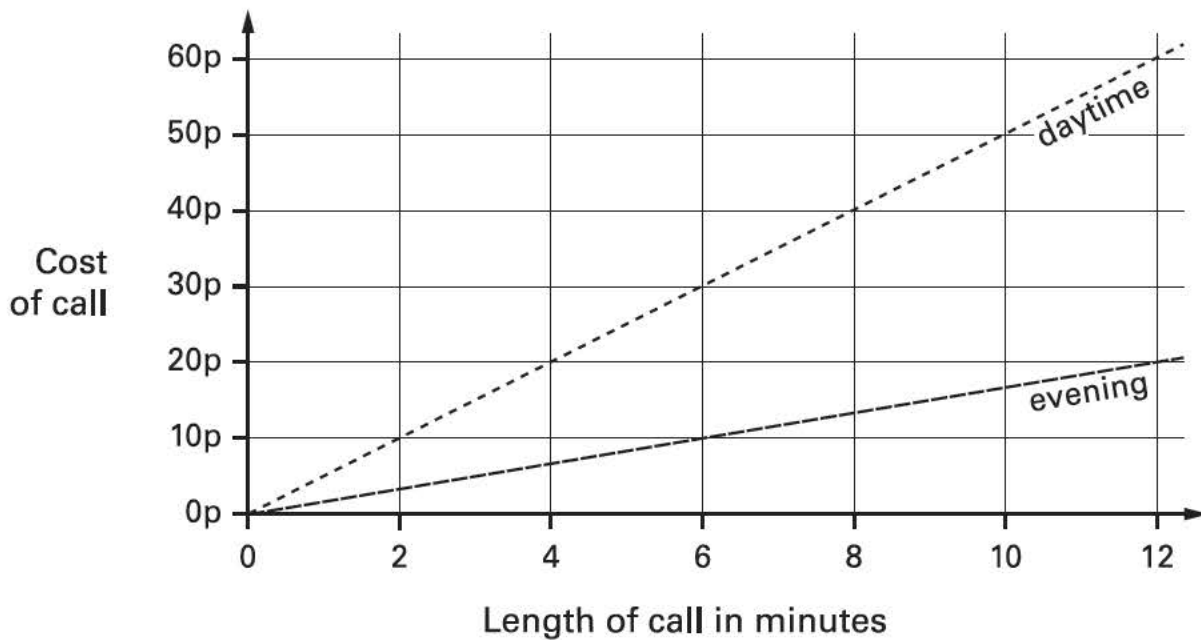
□ □ □

9
1 mark

□

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**?



10a
1 mark

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




10b
1 mark

11

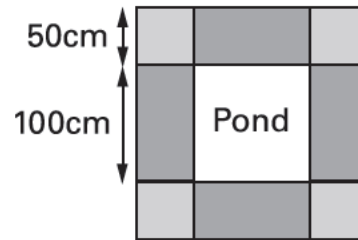
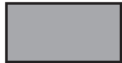
Mr Singh buys paving slabs to go around his pond.

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



12

Write in the missing digits.



4		4
---	--	---

 +

3	8	
---	---	--

 =

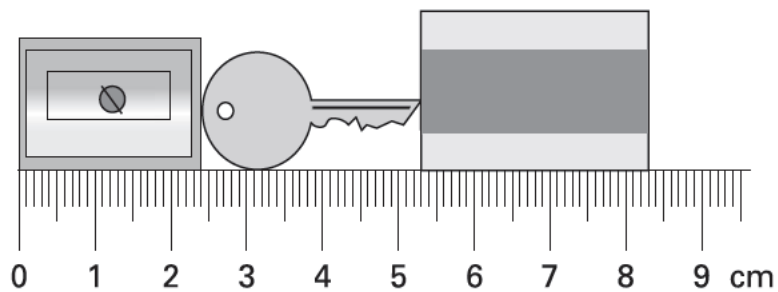
8	5	1
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12
1 mark

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 markWhat is the length of the **key**?Give your answer in **millimetres**.



mm

13b
1 mark

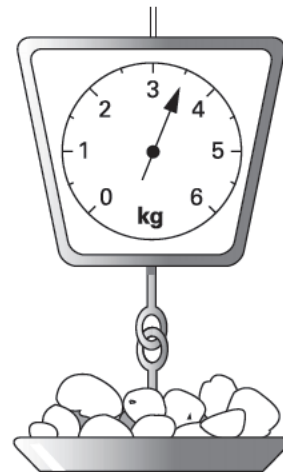
14Calculate 417×20 14
1 mark**15**

This table shows the weight of some fruits and vegetables.

Complete the table.

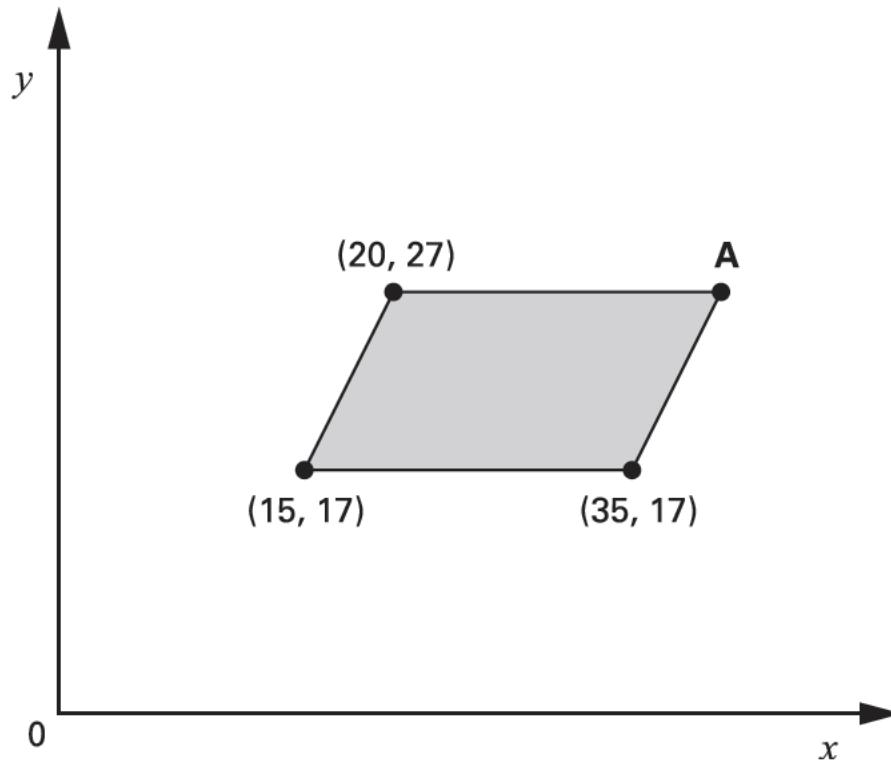


	grams	kilograms
potatoes	3500	3.5
apples		1.2
grapes	250	
ginger		0.03

15
2 marks

16Calculate $15.05 - 14.84$ 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.

<input type="text"/>	bags of green apples	<input type="text"/>	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

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



$$\boxed{} \boxed{0} \times \boxed{} \boxed{0} = \boxed{3} \boxed{0} \boxed{0} \boxed{0}$$

19

1 mark

20A 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 **$924 \div 22$**



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

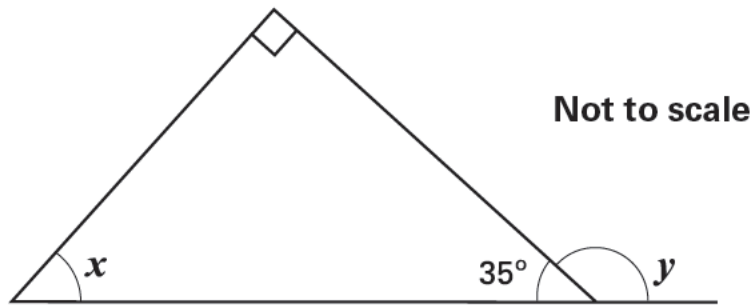


22

2 marks

23

Look at this diagram.



Calculate the size of angle x and angle y .

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



$x =$

$y =$

23a
1 mark

23b
1 mark

24

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



Explain how you know.



.....

.....

.....

24
1 mark



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