

# MATHEMATICS

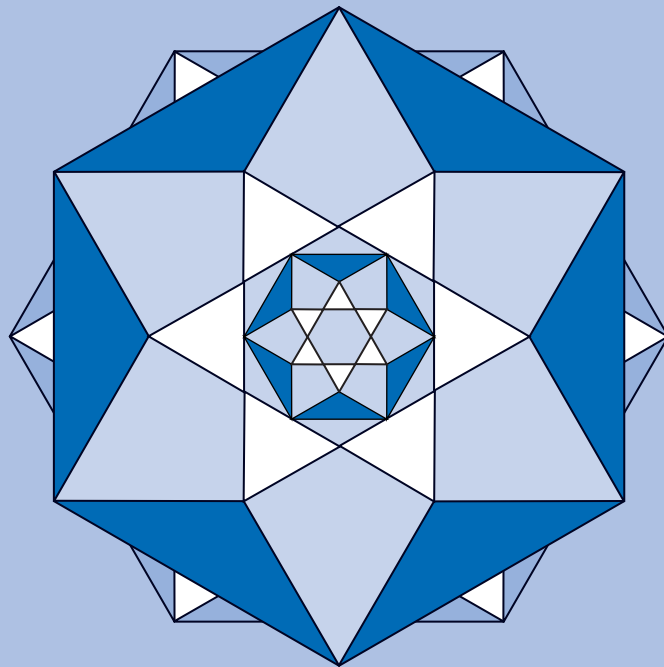
KEY STAGE 2 2002

TEST A

LEVELS  
**3-5**

CALCULATOR NOT ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
18	
<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:**



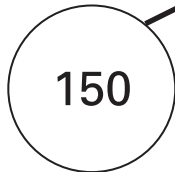
Show  
your **working**.  
You may get  
a mark.



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**



75 + 75

90 + 70

85 + 65

450 - 300

220 - 80

1  
2 marks

2

Write in the missing numbers.



5 × 70 =

4 ×  = 200

2a  
1 mark

2b  
1 mark

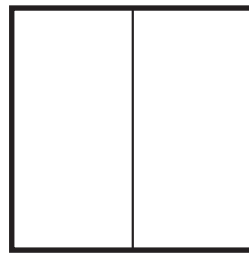
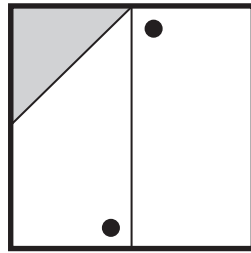
3

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?



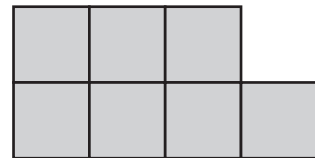
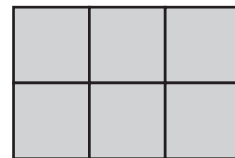
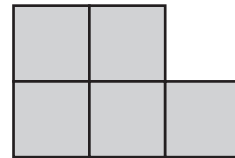
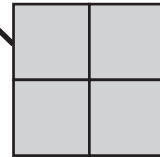
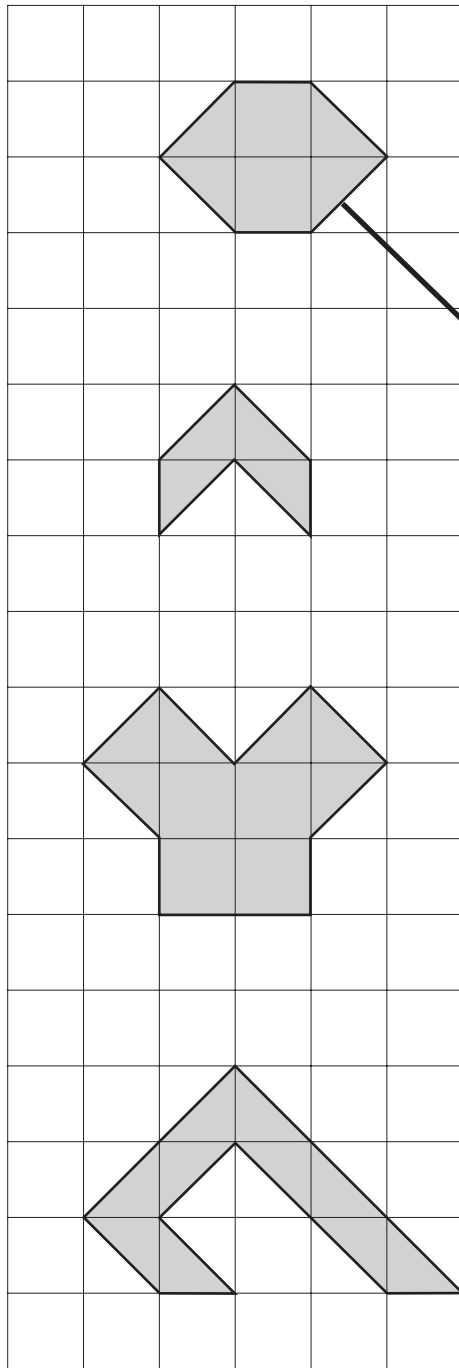
4b

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

5

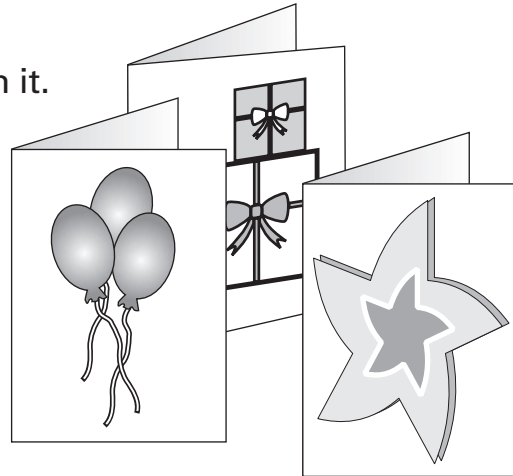
6

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**

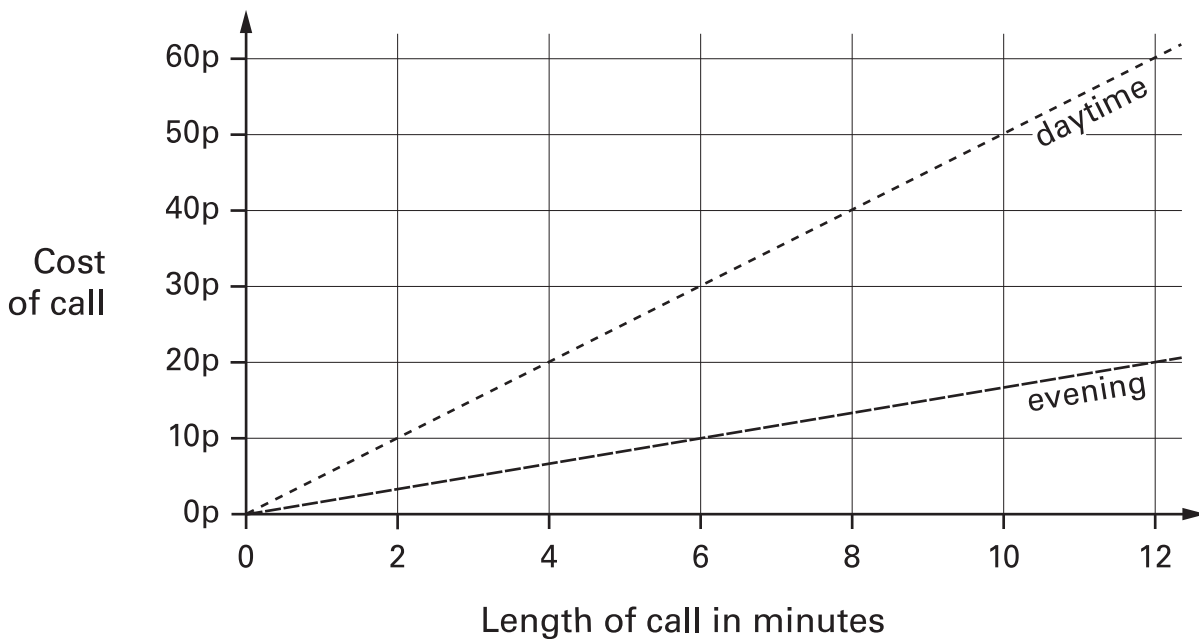


□ □ □

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

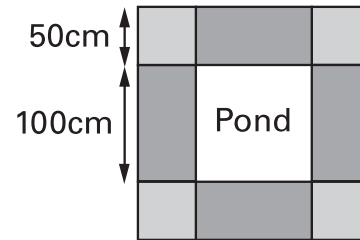
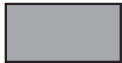
Mr Singh buys paving slabs to go around his pond.

**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	
---	---	--

 = 

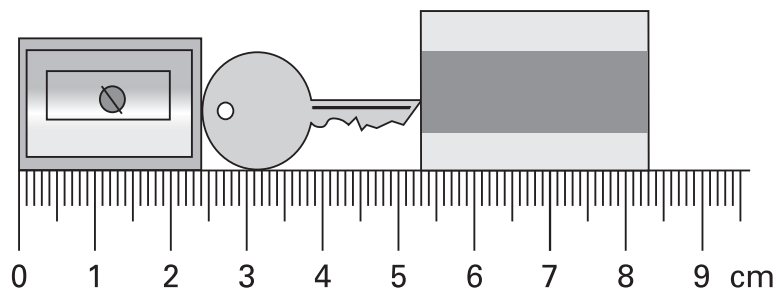
8	5	1
---	---	---

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

**14**Calculate  $417 \times 20$ 

14

1 mark

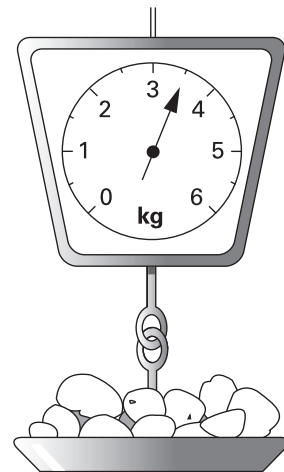
**15**

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



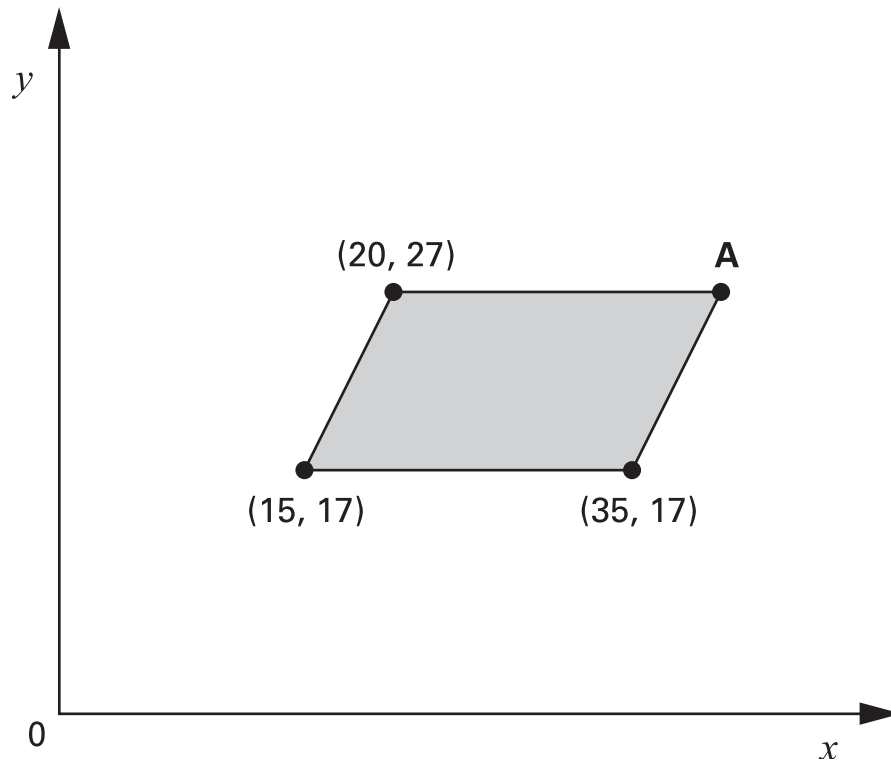
15

2 marks

15

**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. 

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


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

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



	0
--	---

×

	0
--	---

=

3	0	0	0
---	---	---	---

	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  **$924 \div 22$**



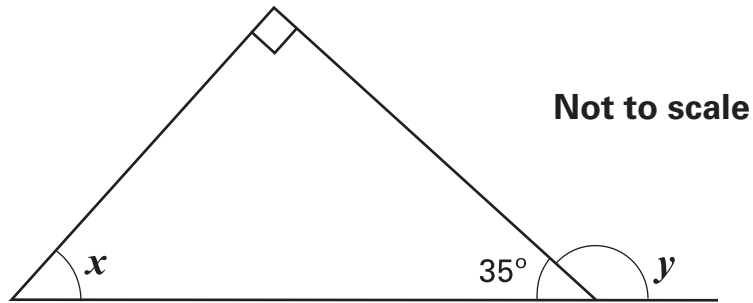
Show  
your **working**.  
You may get  
a mark.



22  
2 marks

23

Look at this diagram.



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

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



$$x = \boxed{\phantom{000}}^\circ$$

$$y = \boxed{\phantom{000}}^\circ$$

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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