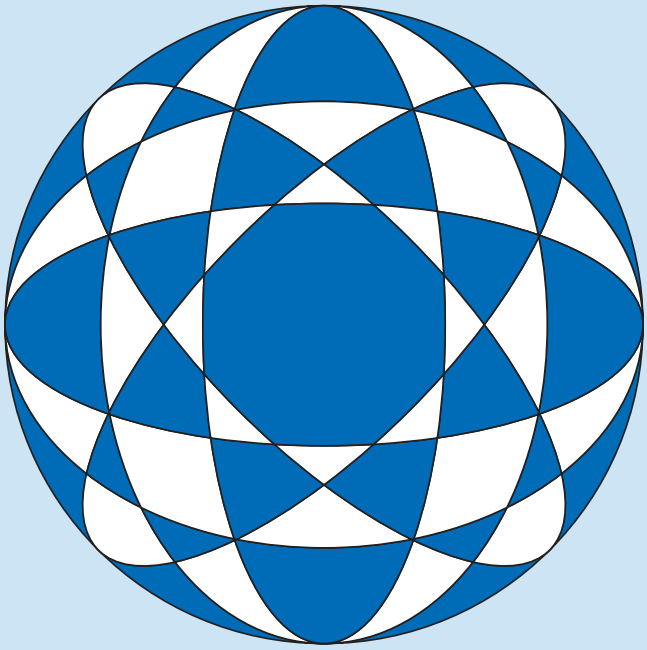
MATHEMATICS

KEY STAGE 2 2004

TEST A **LEVELS 3–5**

CALCULATOR NOT ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
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.

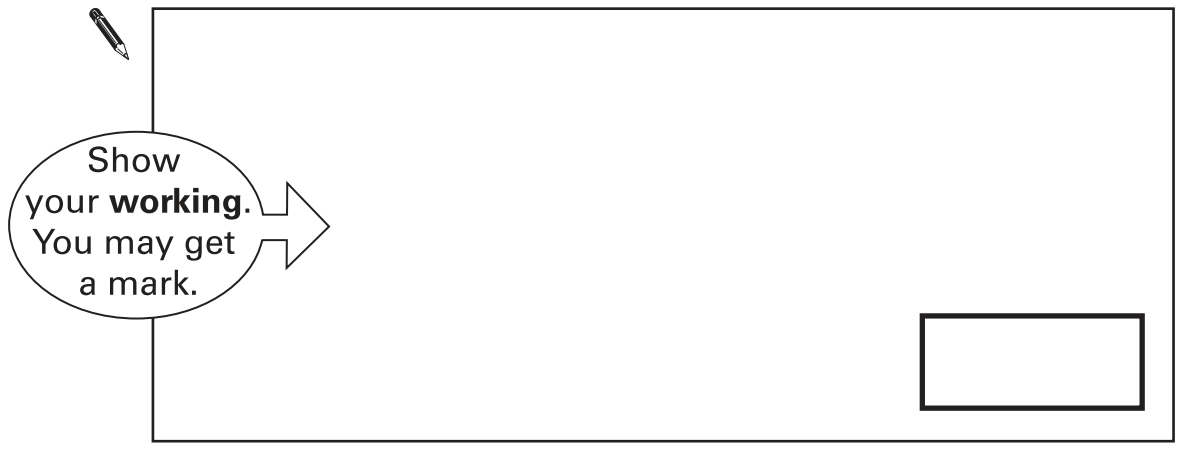
If you finish before the end, **go back and check your work**.

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.

$\square + 85 = 200$

$4 \times \square = 120$

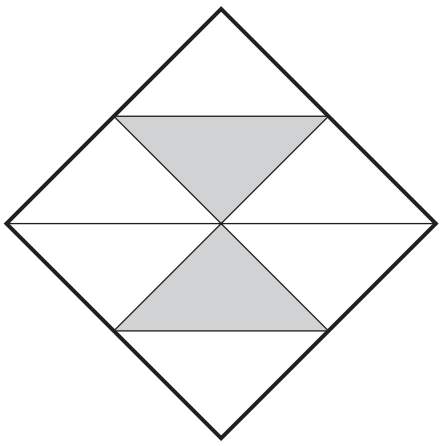
$120 - 51 = \square$

1a
1 mark

1b
1 mark

1c
1 mark

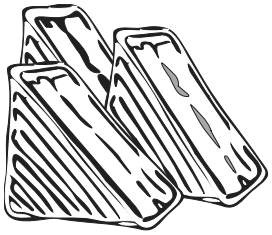
2 Here is a square.

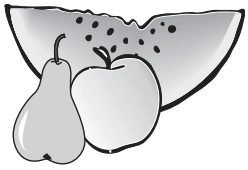


What fraction of the square is shaded?

2
1 mark

3





These are the prices of sandwiches, drinks and fruit.

Sandwiches		Drinks		Fruit	
cheese	£1.45	milk	55p	apple	15p
tuna	£1.70	cola	45p	pear	20p
salad	£1.20	juice	65p	melon	25p

Shereen buys a **tuna** sandwich, **milk** and a **pear**.

How much does she pay?

3a

1 mark

Mike has 80p to spend on a **fruit** and a **drink**.

What **two** things can he buy for exactly **80p**?

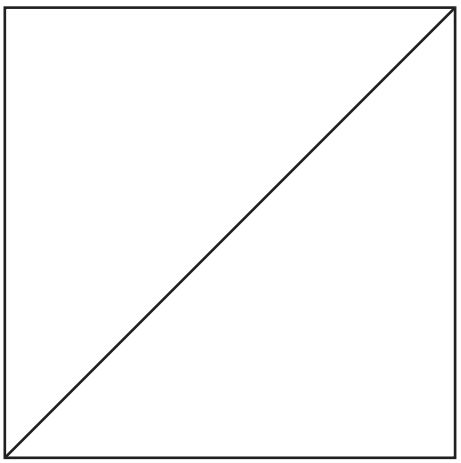
. . . . . and . . . . . .

3b

1 mark

Total out of 6

4



Measure accurately the length of the **diagonal** of this square.

Give your answer in **centimetres**.

cm

4

1 mark

5

Use **each** number card **once** to make the answer to each calculation an **even** number.

5 × ☐

12 ÷ ☐

9 + ☐

5i

5ii

2 marks

6

Alan has **45 beans**.

He plants **3 beans** in each of his pots.

How many pots does he need?

pots

6a

1 mark

Leila puts **4 seeds** in each of her pots.

She uses **6 pots** and has **1 seed** left over.

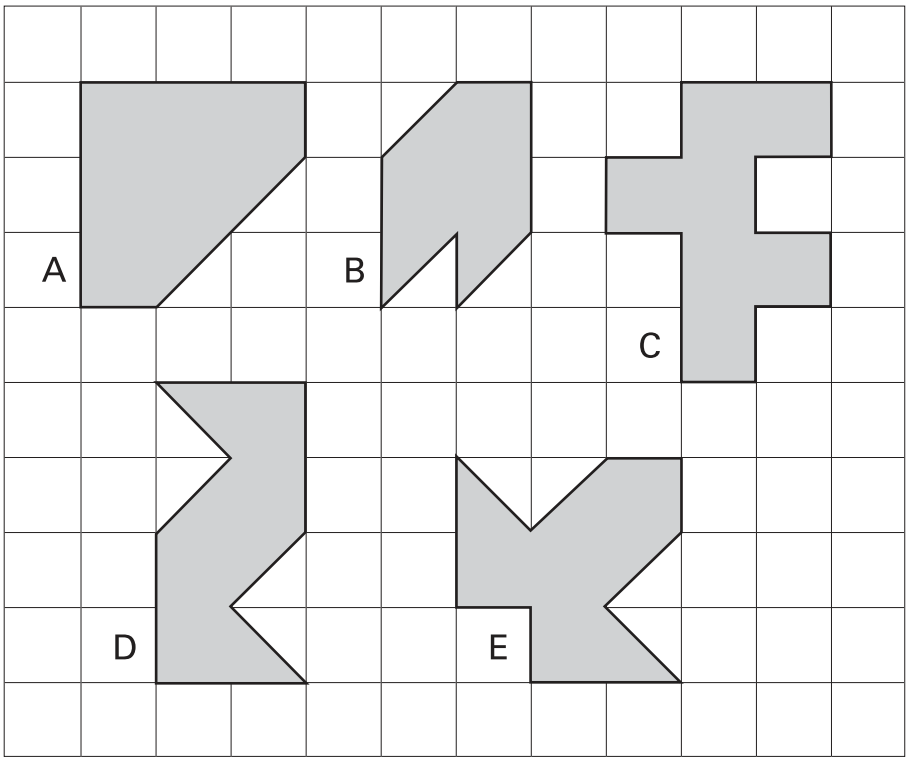
How many seeds did she start with?

6b

1 mark

Total out of 5

7 Here are five shapes on a square grid.



Write the letters of the **two** shapes which have a line of symmetry.

. . . . . and . . . . . .

7i

7ii

2 marks

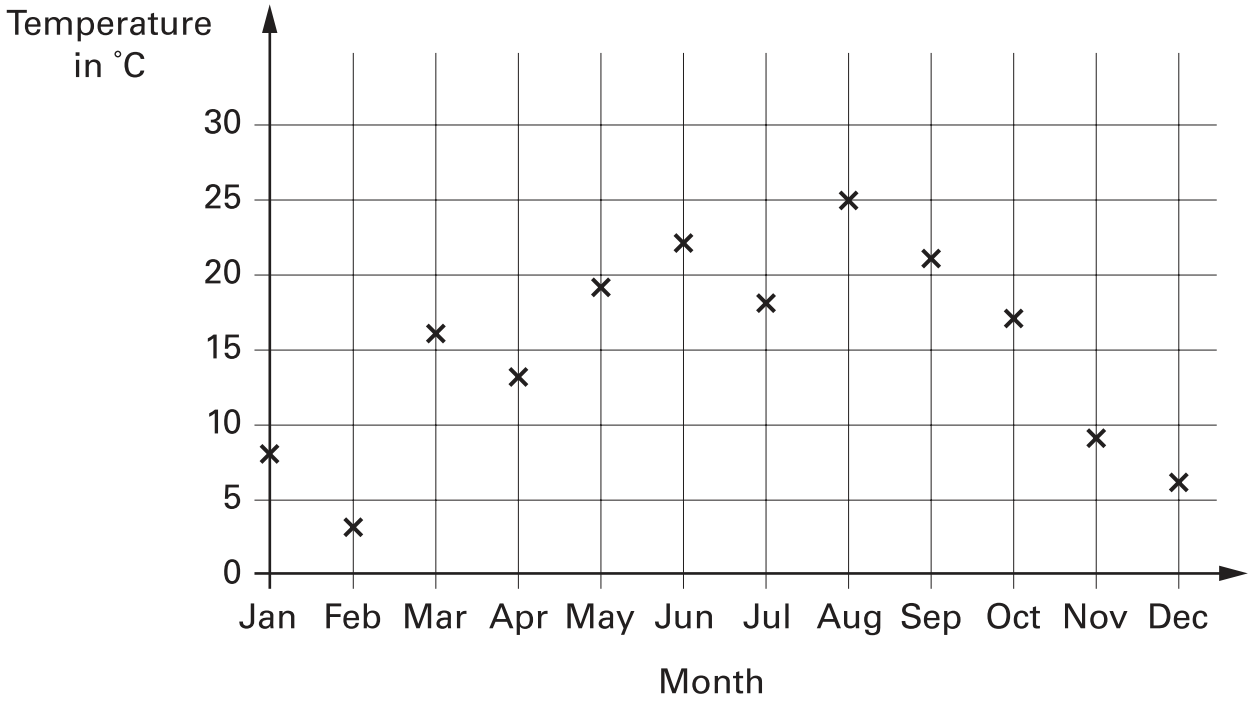
8 Calculate **13.6 – 2.8**

8

1 mark

9 Abbie takes the temperature outside at midday on the first day of each month.

The graph shows her results from January to December.



How many months on the graph show a temperature **between 10°C and 20°C**?

9a

1 mark

Find the difference in temperature shown on the graph between **July** and **August**.

degrees

9b

1 mark

Total out of 5

10 A shop sells three types of sunglasses.

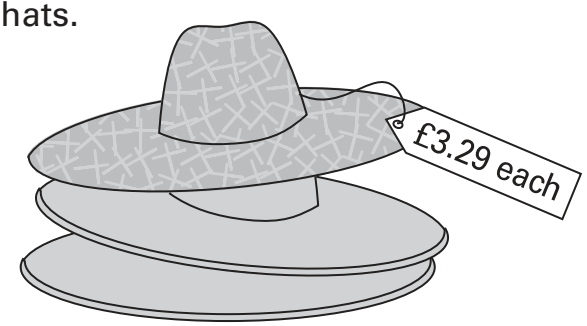
What is the **difference** in price between the **most** expensive and **least** expensive sunglasses?

£

10a

1 mark

The shop also sells sun hats.



Ryan buys the **£4.69 sunglasses** and a **sun hat**.

How much change does he get from **£10**?

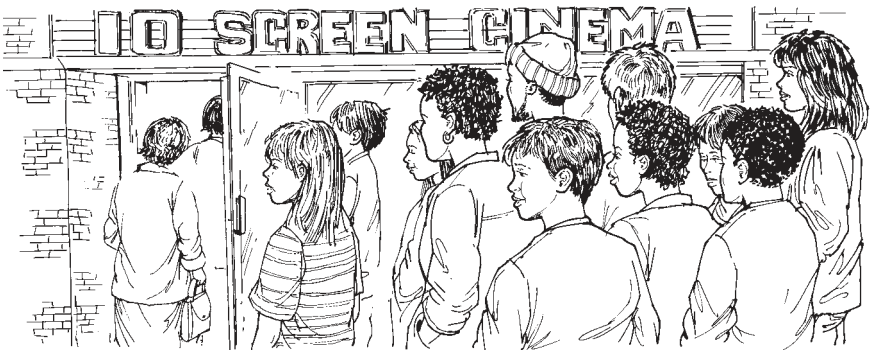
Show your **working**. You may get a mark.

10bi

10bii

2 marks

11



A film starts at 6:45pm.

It lasts 2 hours and 35 minutes.

What time will the film finish?

pm

11

1 mark

12 Here is a sorting diagram for numbers.

Write a number **less than 100** in each space.

	even	**not** even
a square number		
not a square number		

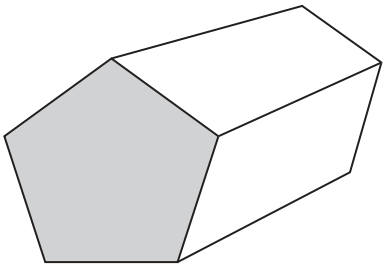
12i

12ii

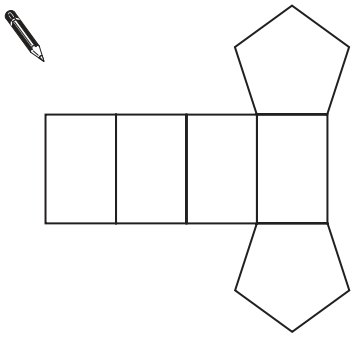
2 marks

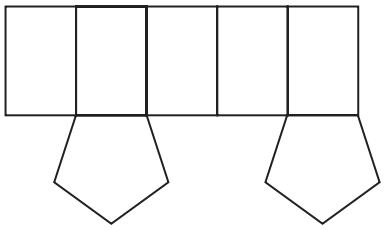
Total out of 6

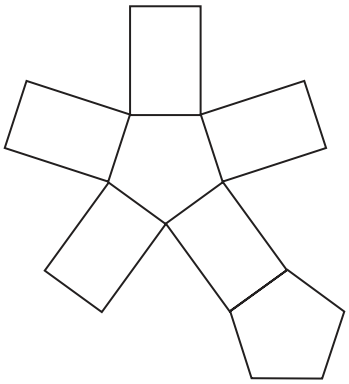
13 This is a drawing of a pentagonal prism.

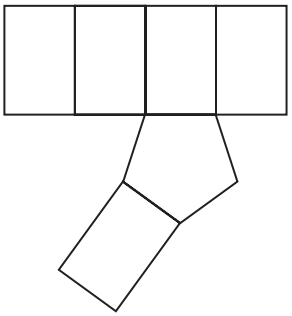


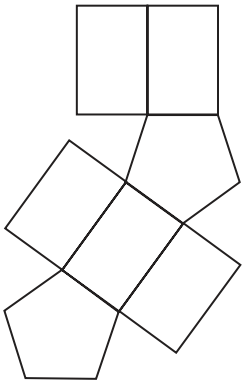
Tick (✓) the one shape that is a net for the pentagonal prism.











13

1 mark

14 Write in the missing numbers in this multiplication grid.

×	5	□	□
4	20	36	32
□	35	63	56
□	30	54	48

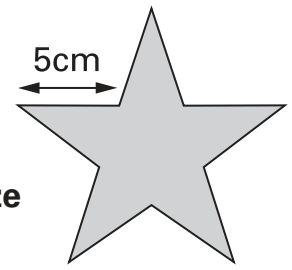
14i

14ii

2 marks

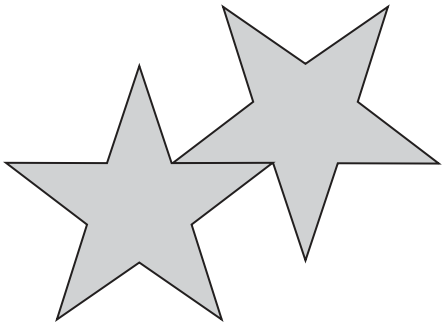
15 Millie has some star-shaped tiles.

Each edge of a tile is 5 centimetres long.



Not actual size

She puts two tiles together to make this shape.



Work out the perimeter of Millie's shape.

cm

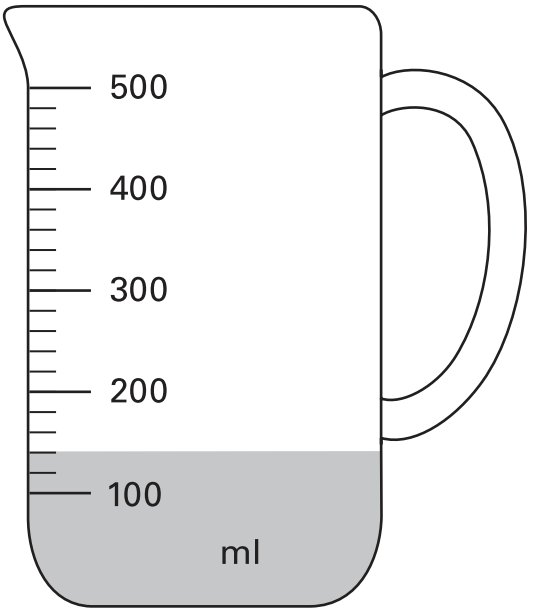
15

1 mark

Total out of 4

16 Mr Khan makes a blackcurrant drink for a party.

He pours blackcurrant squash into a jug.



How much water must he add to make **500 millilitres** of drink?

ml

16

1 mark

17 Calculate **31.6 × 7**

17

1 mark

18 Mari is the presenter of a weekly radio show.

She always plays **five** new songs
for every **two** old songs.

Last week she played 15 **new** songs.

How many songs did she play **altogether**?

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

18i

18ii

2 marks

Total out of 4

19 Julie says,

'I added three odd numbers and my answer was 50'

Explain why Julie cannot be correct.

.....

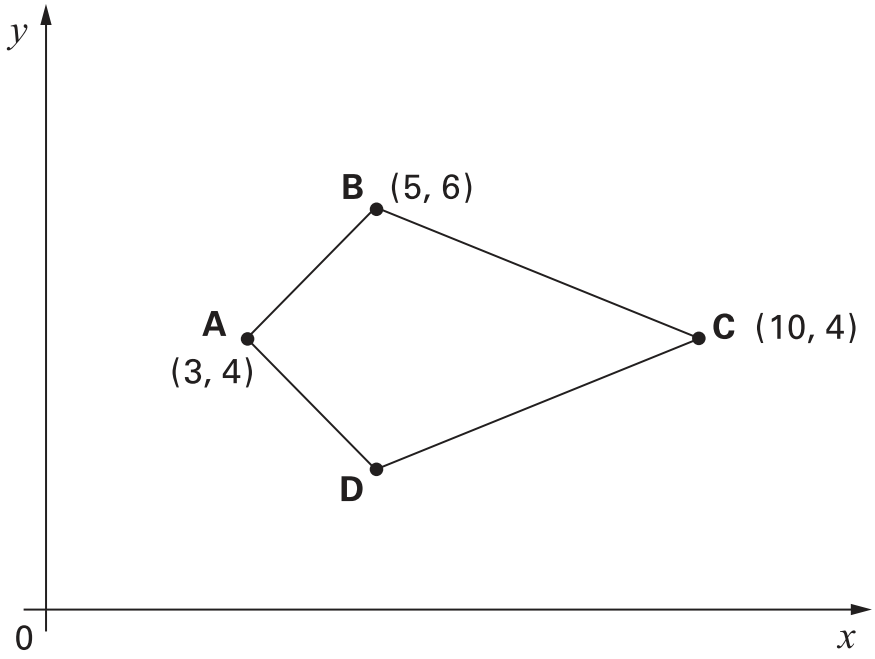
.....

.....

19

1 mark

20 Here is a kite.



Write the coordinates of point **D**.

(,)

20

1 mark

21 Calculate **900 ÷ (45 × 4)**

21

1 mark

22 Liam thinks of a number.

He **multiplies the number by 5** and then **subtracts 60** from the result.

His answer equals the number he started with.

What was the number Liam started with?

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

22i

22ii

2 marks

Total out of 5

23

Here is a part of a train timetable.

Edinburgh	–	09:35	–	–	13:35	–	–
Glasgow	09:15	–	11:15	13:15	–	13:45	15:15
Stirling	09:57	–	11:57	13:57	–	14:29	15:57
Perth	10:34	10:51	12:34	14:34	14:50	15:15	16:35
Inverness	–	13:10	–	–	17:05	–	–

How long does the first train from Edinburgh take to travel to Inverness?

23a

1 mark

Ellen is at Glasgow station at 1:30pm.

She wants to travel to Perth.

She catches the next train.

At what time will she arrive in Perth?

23b

1 mark

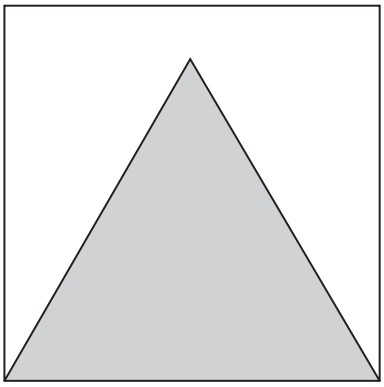
24 Calculate **5%** of **£3600**

£

24

1 mark

25 Here is an equilateral triangle inside a square.



Not actual size

The perimeter of the triangle is 48 centimetres.

What is the perimeter of the **square**?

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

cm

25i

25ii

2 marks

Total out of 5

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