Ma

KEY STAGE 2

LEVELS 3–5

2008

Mathematics test

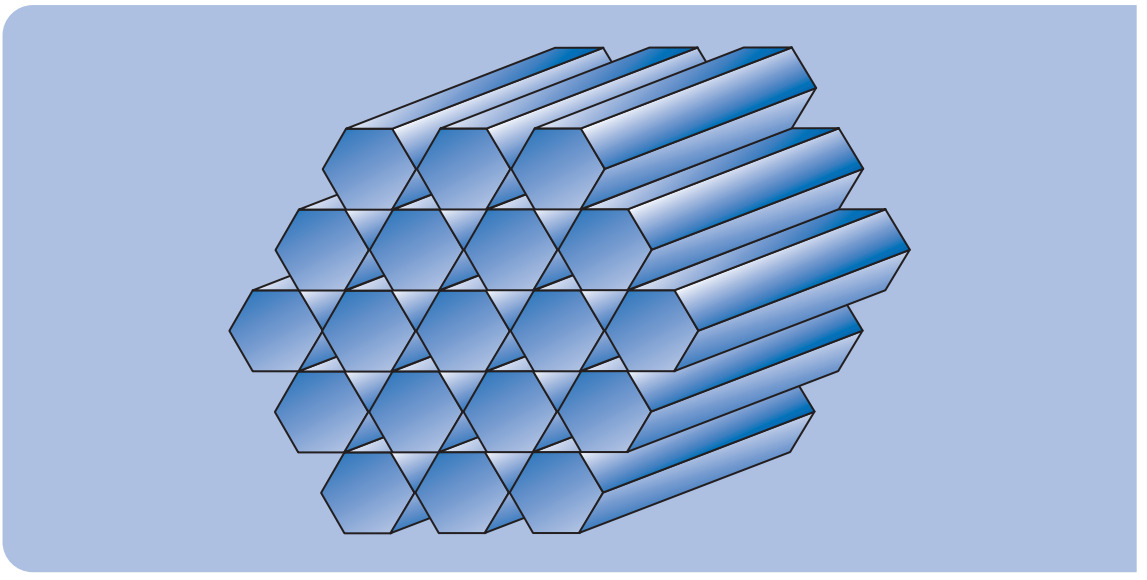
Test A

Calculator **not** allowed

First name _____

Last name _____

School _____



For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
23	
TOTAL	

Emily

Nisha

Ben

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.

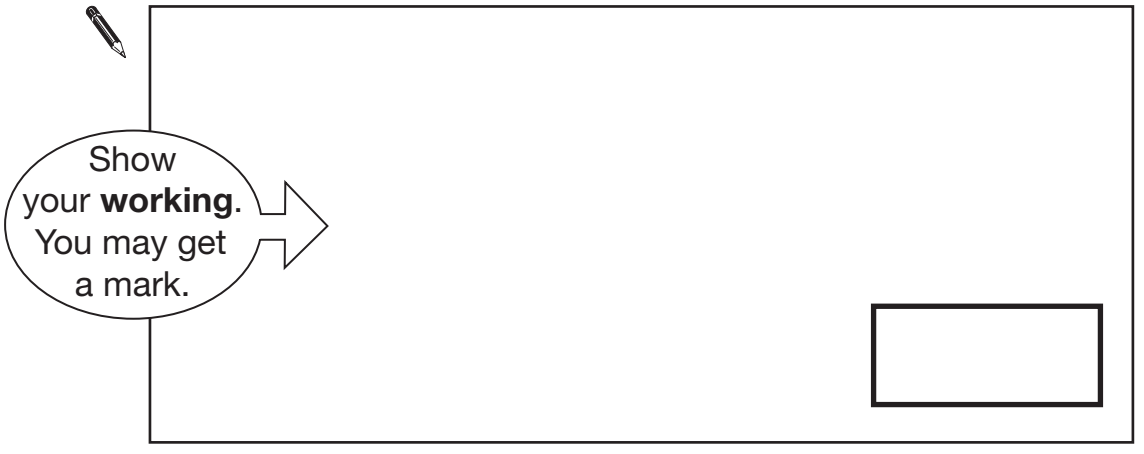
If you finish before the end, **go back and check your work**.

Follow the instructions for each question carefully.

This shows where you need to put the answer.

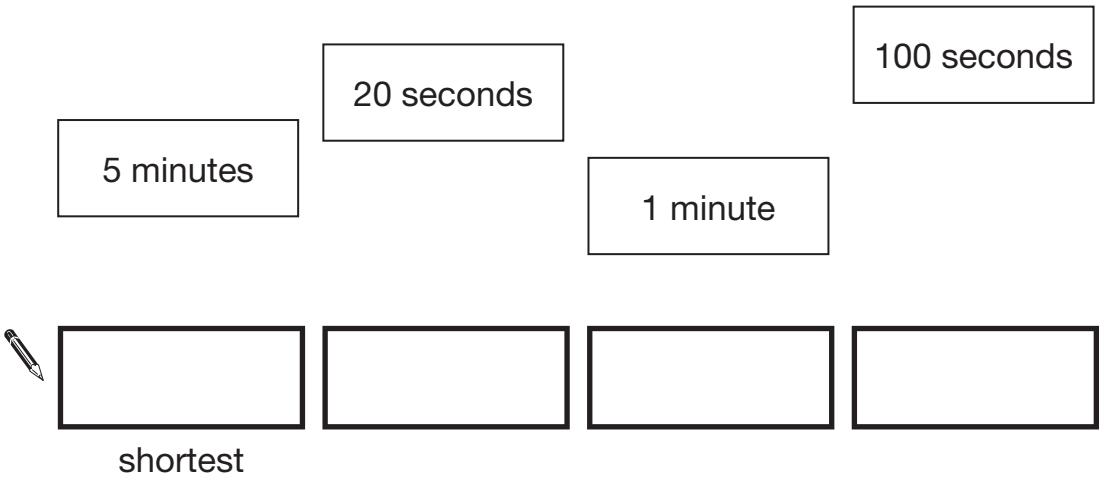
If you need to do working out, you can use any space on a page.

Some questions have an answer box like this:



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

1 Put these times in order, starting with the shortest.

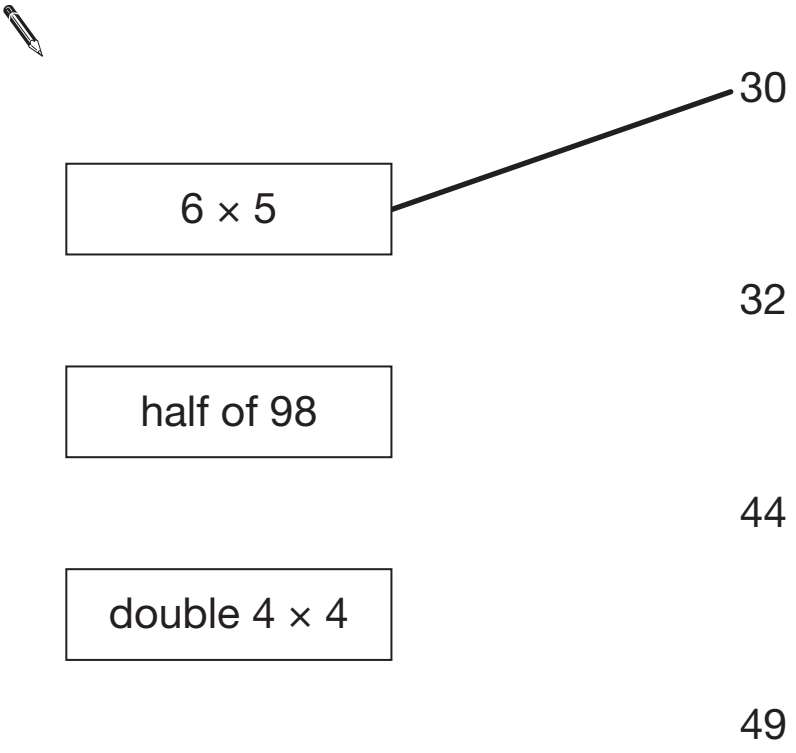


1

1 mark

2 Join each box to the correct number.

One has been done for you.



2

1 mark

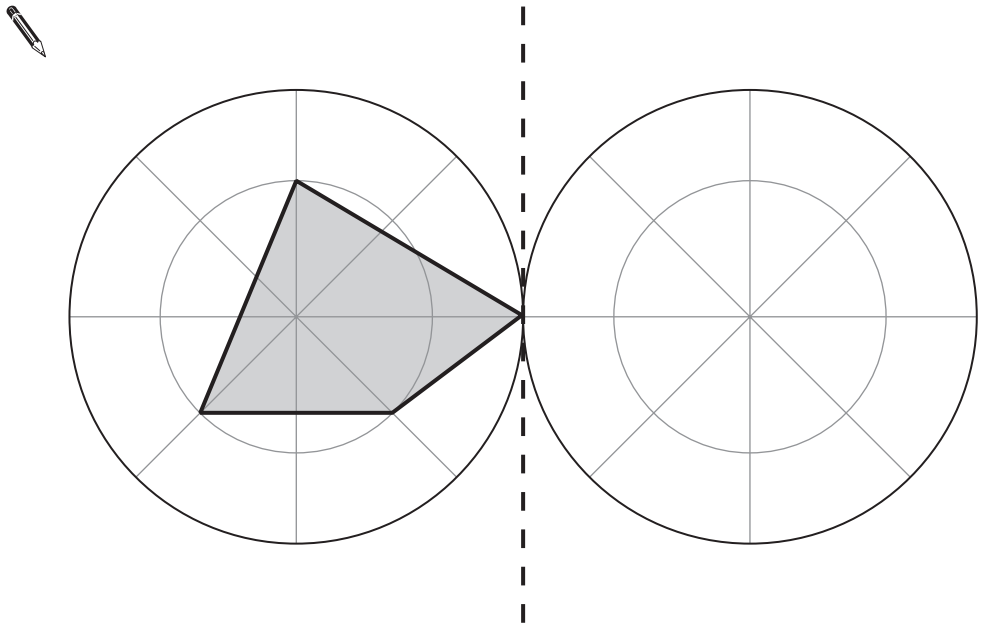
3 Calculate **239 + 182**

3

1 mark

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

Use a ruler.



4

1 mark

Total out of 4 _____

5 Park School collects money for three charities.

This pictogram shows how much they have collected.

stands for £100

Save Dolphins					
Wildwatch					
Plant-a-Tree					

How much more have they collected for Save Dolphins than Plant-a-Tree?

£ 5a

1 mark

The target for Wildwatch is £500

How much **more** money do they need to collect for Wildwatch?

£ 5b

1 mark

How much money have they collected altogether, rounded **to the nearest hundred pounds**?

£ 5c

1 mark

6 The numbers in this sequence increase by 75 each time.

Write in the two missing numbers.

6a

725 800 875 950

1 mark

6b

1 mark

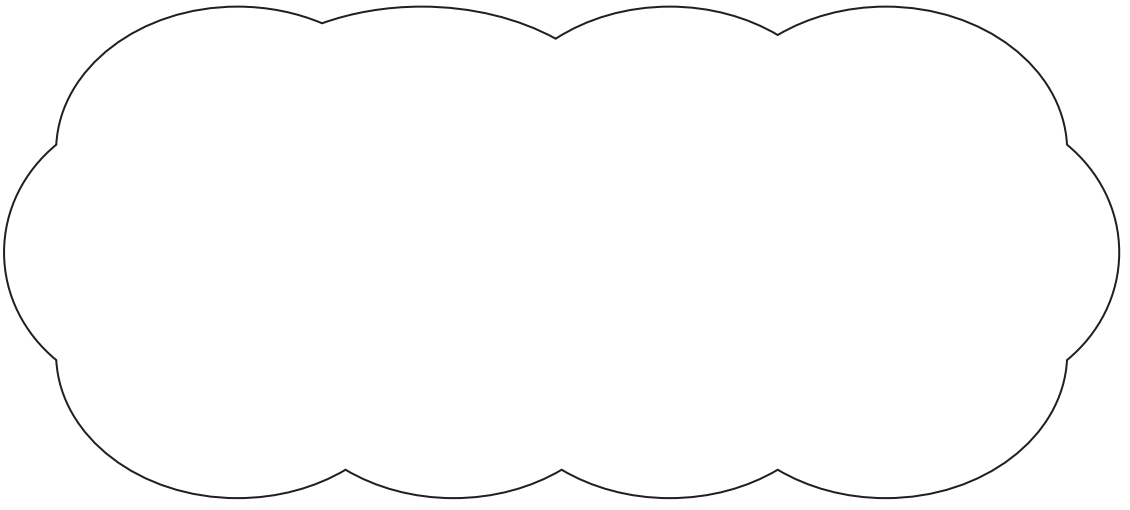
7 A square always has four sides.

Is it true that a four-sided shape is **always** a square?

Circle **Yes** or **No**.

Yes / No

Explain how you know.

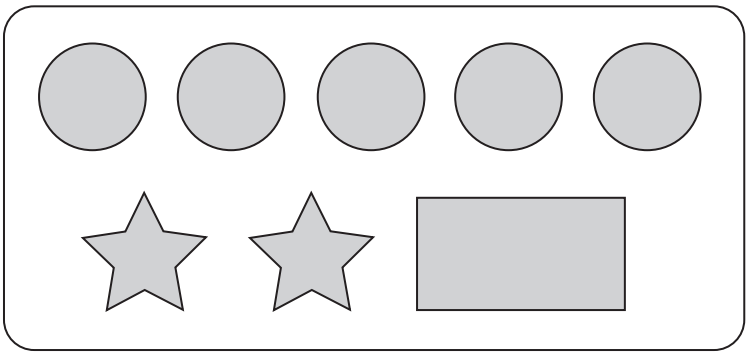


7

1 mark

Total out of 6 _____

8 On a sheet of stickers there are 5 circles, 2 stars and one rectangle.



How many stickers are there altogether on **4** sheets?

8a

1 mark

Nisha needs 55 circles.

How many sheets of stickers does she need?

8b

1 mark

Ben has 10 sheets of stickers.

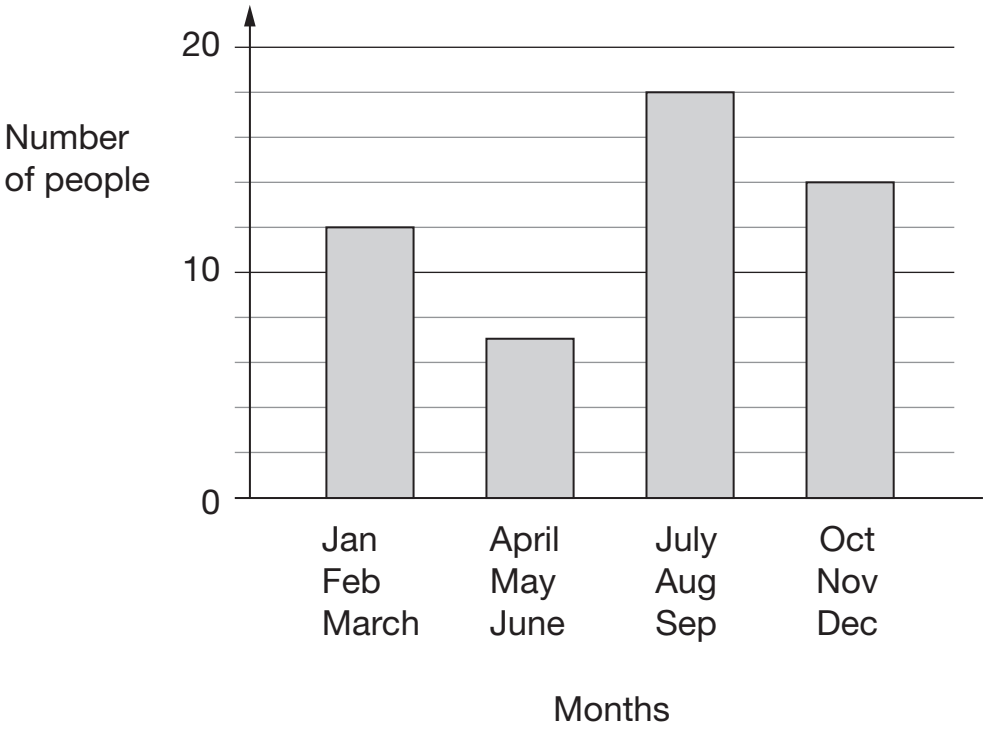
How many **more** circles than rectangles does he have?

8c

1 mark

9 Class 6 did a survey of birthday dates.

This chart shows the number of people with birthdays in each three months of the year.



From the chart, how many people have a birthday before July?

9a

1 mark

Nobody has a birthday in October.

Six people have a birthday in November.

How many people have a birthday in December?

9b

1 mark

Total out of 5 _____

10 Here is a number chart.

Circle the **smallest** number on the chart that is a multiple of **both** 2 and 7

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

10a

1 mark

Here is the same number chart.

Circle the **largest** number that is **not** a multiple of 2 or 3 or 5

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

10b

1 mark

11 A shop sells scarves and hats.

Ben buys one of the scarves and the £4.50 hat.

How much change does he get from £20?

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

£ 11ai

11aii

2 marks

Emily buys **two** scarves and a hat.

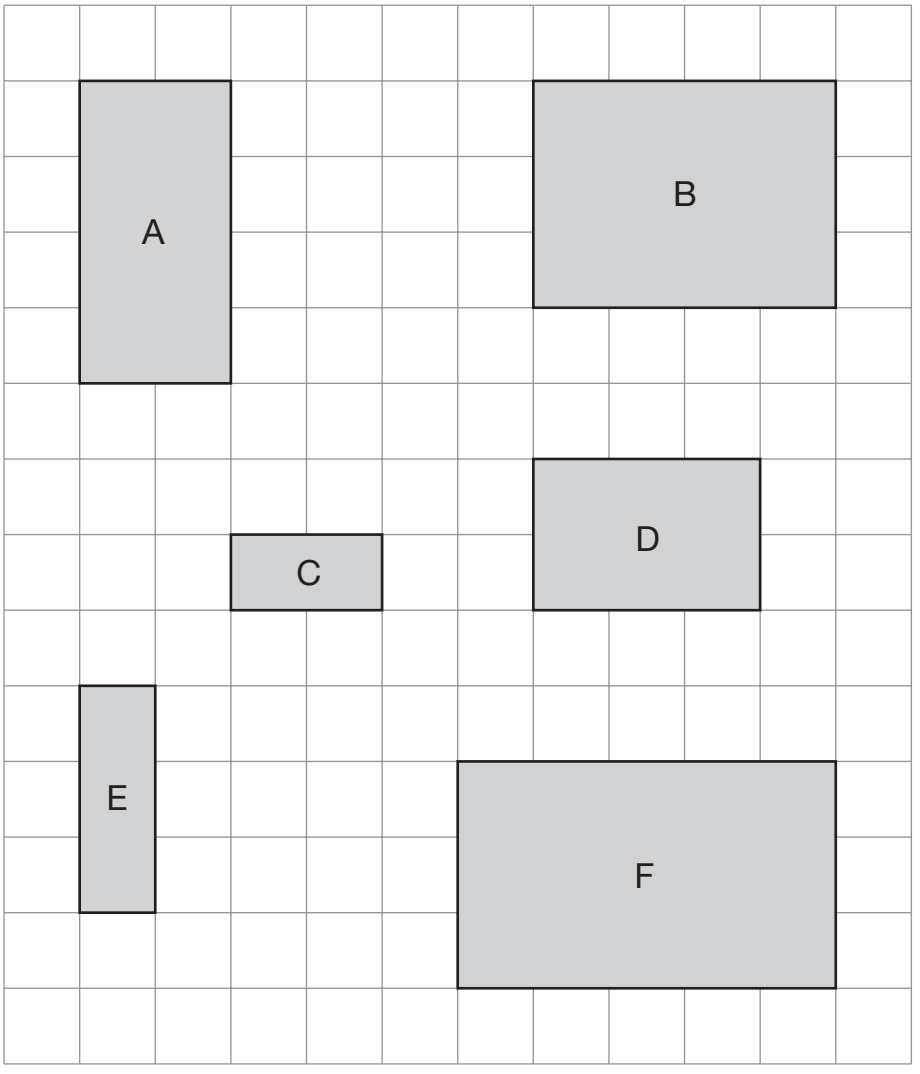
What is the **most** she could pay?

£ 11b

1 mark

Total out of 5 _____

12 Here are six rectangles on a grid.



Which **two** rectangles fit together, without overlapping,
to make a **square**?

_____ and _____

12

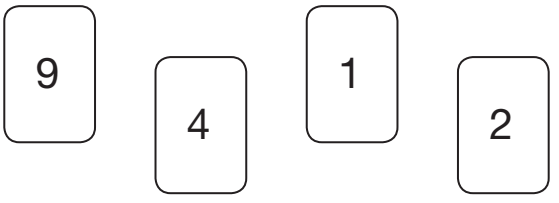
1 mark

13 Calculate **364 ÷ 7**

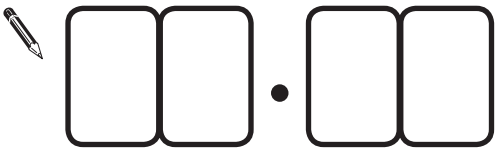
13

1 mark

14 Here are four digit cards.



Use each digit card **once** to make the decimal number **nearest to 20**

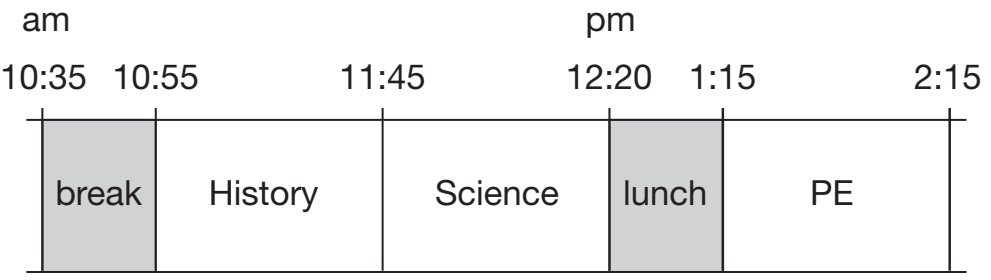


14

1 mark

Total out of 3 _____

15 Here is part of the timetable for Class 6 on a Monday.



Look at the timetable.

How long is it from the **end** of break to the **start** of lunch?

15a

_____

1 mark

Nisha leaves the Science lesson after 25 minutes.

Then she goes to the dentist.

What time does she leave the Science lesson?

15b

1 mark

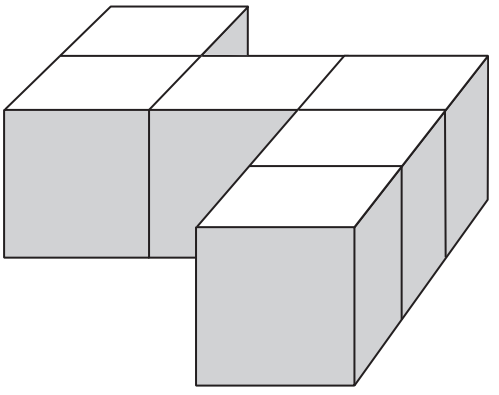
16 Calculate **45.3 × 6**

16

1 mark

17 Emily has 6 cubes.

She sticks them together to make this model.



She paints the sides of the model grey all the way round.

She leaves the top and the bottom of the model white.

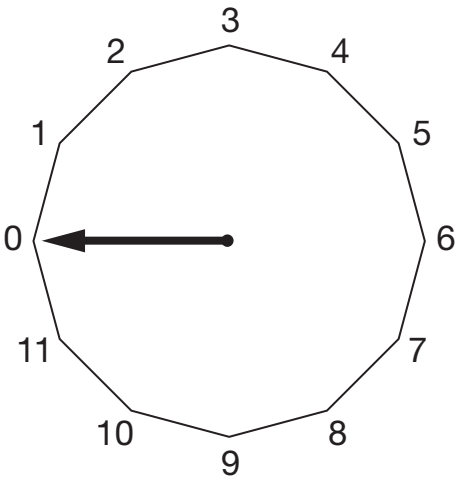
How many of the cubes in the model have **exactly two** faces painted grey?

17

1 mark

Total out of 4 _____

18 This regular 12-sided shape has a number at each vertex.



Ben turns the pointer from zero, clockwise through 150°

Which number will the pointer now be at?

18a

1 mark

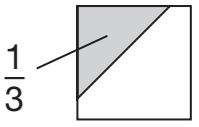
Nisha turns the pointer clockwise from number 2 to number 11

Through how many degrees does the pointer turn?

18b

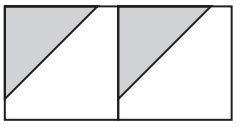
1 mark

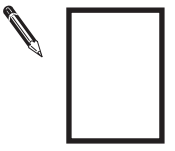
19 $\frac{1}{3}$ of this square is shaded.



The same square is used in the diagrams below.

What fraction of this diagram is shaded?

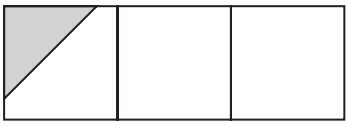


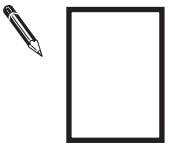


19a

1 mark

What fraction of this diagram is shaded?



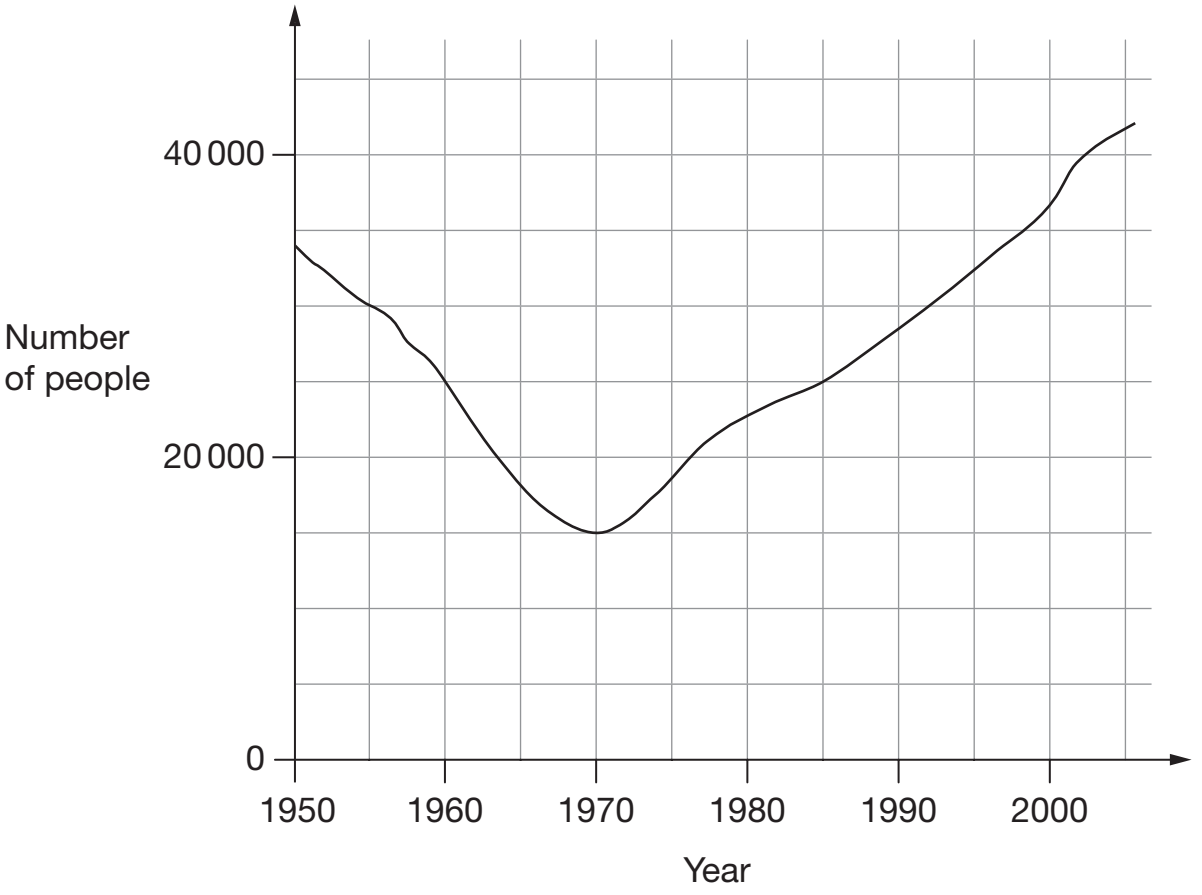


19b

1 mark

Total out of 4 _____

20 This graph shows the number of people living in a town.



Look at the graph.

How many people lived in the town in 1985?

20a

1 mark

In which year was the number of people the same as in 1950?

20b

1 mark

Find the year when the number of people first went below 20 000

20c

1 mark

21 Ben thinks of a number.

He adds half of the number to a quarter of the number.

The result is 60

What was the number Ben first thought of?

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

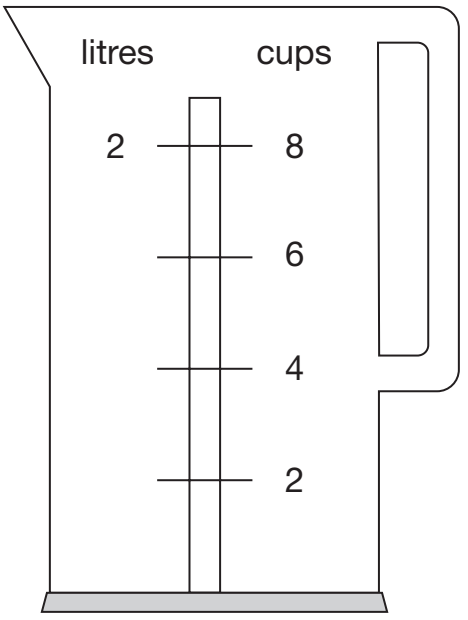
21i _____

21ii _____

2 marks

Total out of 5 _____

22 Nisha's kettle holds 2 litres of water.



How many millilitres are equal to 1 cup?

ml

22

1 mark

23 The numbers in this sequence increase by 7 each time.

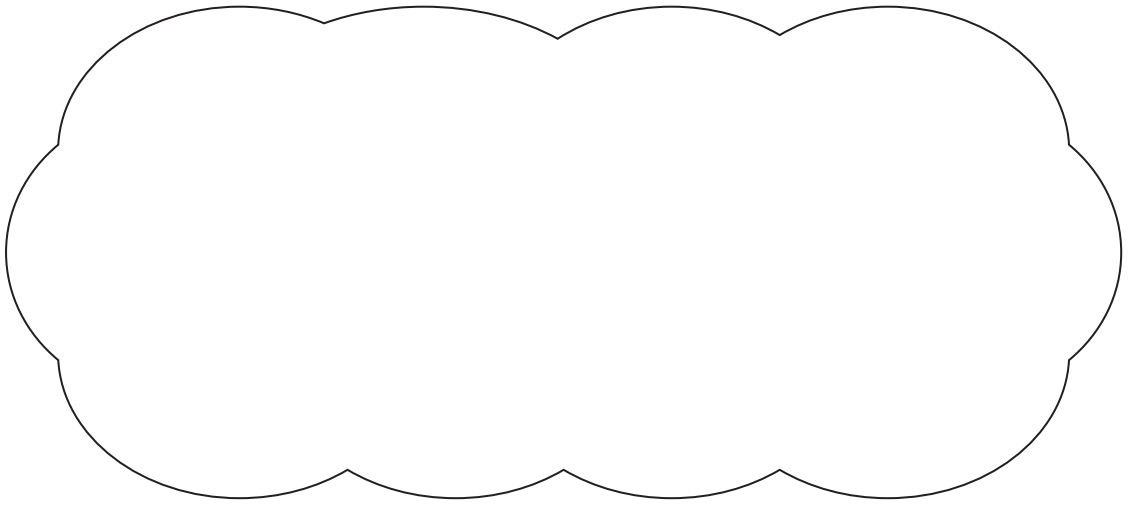
1 8 15 22 29 ....

The sequence continues in the same way.

Will the number 777 be in the sequence?
Circle **Yes** or **No**.

Yes / No

Explain how you know.

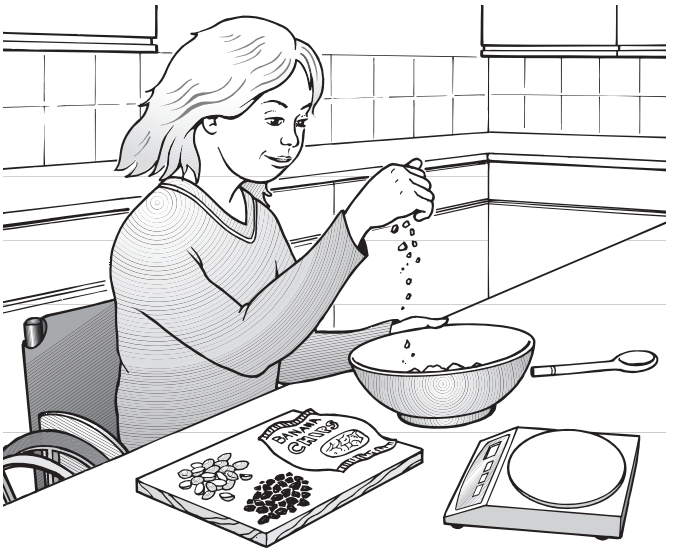


23

1 mark

Total out of 2 _____

24



Emily makes 250 grams of a snack mixture.

15% of the weight is raisins, 25% is banana chips and the rest is peanuts.

How many grams of **peanuts** does she use?

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

g

24i

24ii

2 marks

End of test

Total out of 2 _____

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QCA/08/3308 (Pupil pack)
QCA/08/3303 (Mark schemes pack)