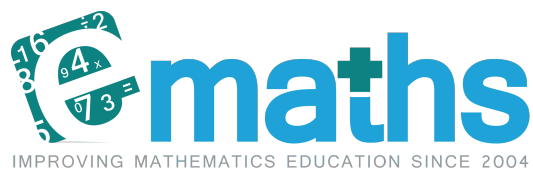


National curriculum tests

Key stage 2

Practice Paper: Reasoning R5

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						



Key Stage 2 National Curriculum Tests - Practice Paper - Reasoning

Instructions

You **may not** use a calculator to answer any questions in this test.

Questions and answers

You have **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Do not write over any barcodes.

Some questions have a method box like this:

Diagram illustrating a method box for a question. The box is a grid of 20 columns and 10 rows. On the left side of the grid, there is a rounded rectangular box containing the text "Show your method". On the right side of the grid, there is a smaller, empty rectangular box.

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

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.**

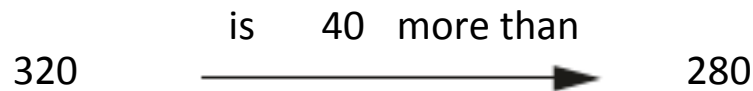
Marks

The number under each line at the side of the page tells you the maximum number of marks for each question.

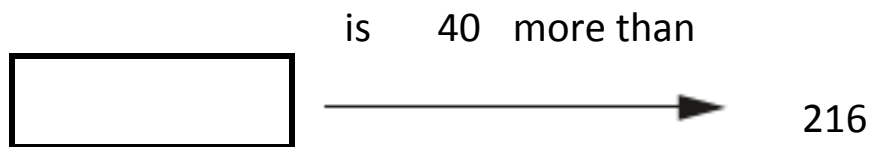
1 Write the missing number.

One is done for you.

320 is 40 more than 280



is 40 more than 216



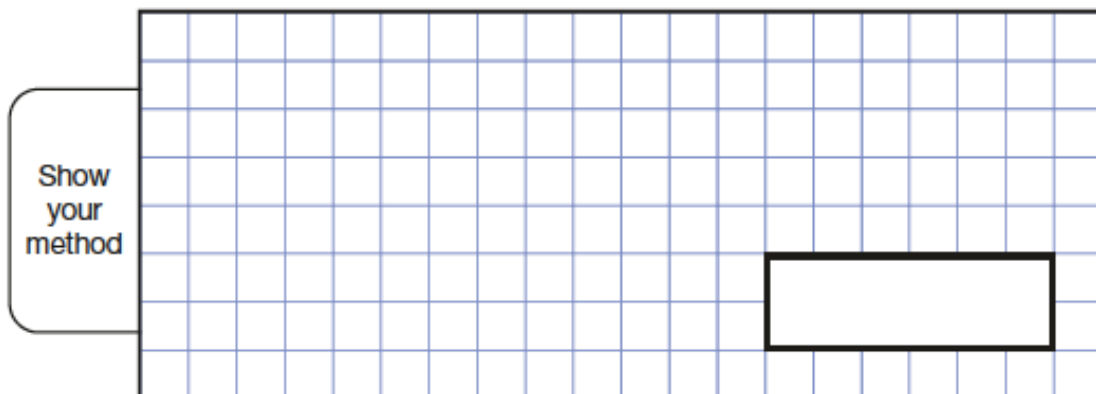
1 mark

2 A packet of paper has 230 sheets

5 children each take 7 sheets

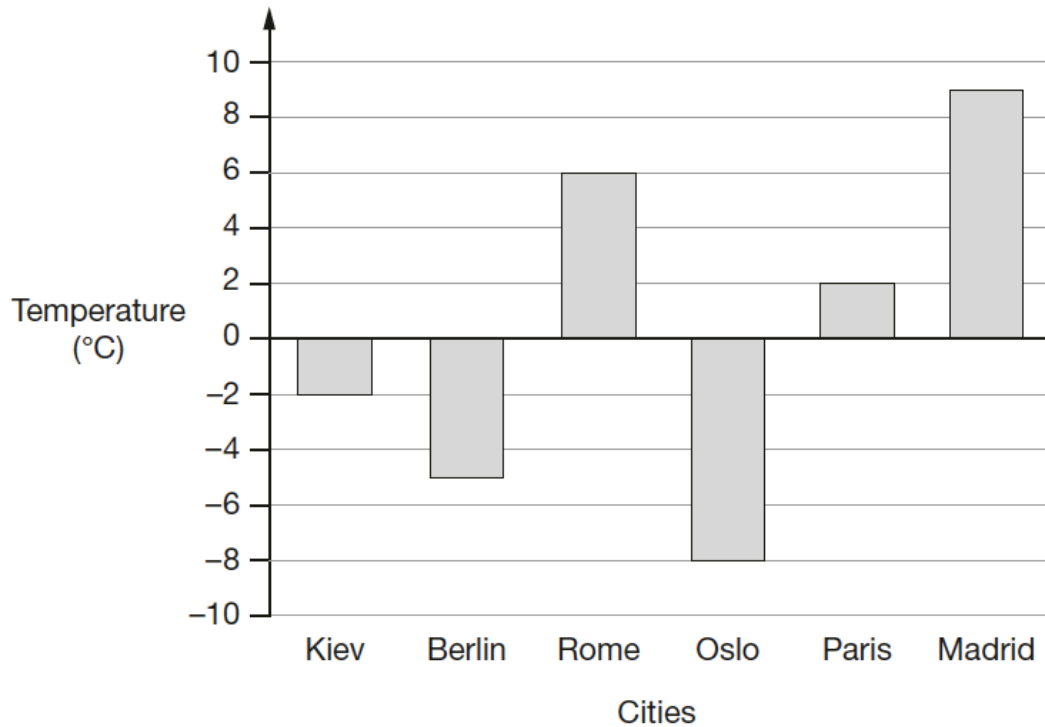
How many sheets of paper are left in the packet?

Show your method



2 marks

- 3 This graph shows the temperature in six cities on a day in January.



Which city was 11 degrees warmer than Kiev?

1 mark

What was the difference between the temperature in Kiev and the temperature in Paris?

°C

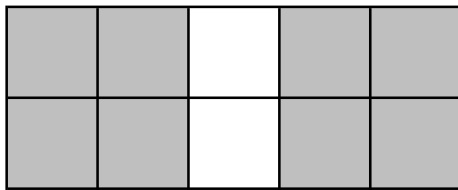
1 mark

4 Here are some shapes made of squares.

A fraction of each shape is shaded.

Match each shape to its equivalent fraction.

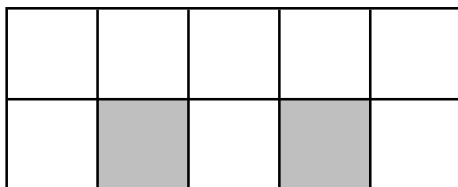
One has been done for you.



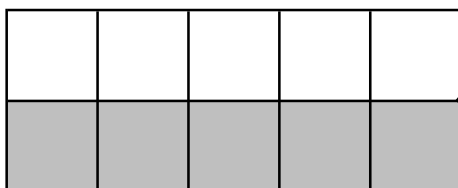
$$\frac{6}{10}$$



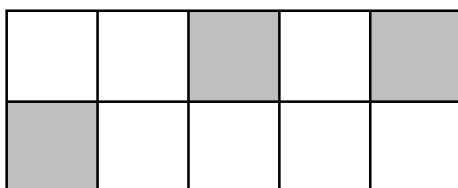
$$\frac{4}{5}$$



$$\frac{1}{2}$$



$$\frac{3}{10}$$



$$\frac{1}{5}$$

2 marks

R5

5 What is **432** minutes in hours and minutes?

hours	minutes
-------	---------

1 mark

6 Bill's watch shows five minutes past nine.

The watch is twenty minutes fast



What is the correct time?

--

1 mark

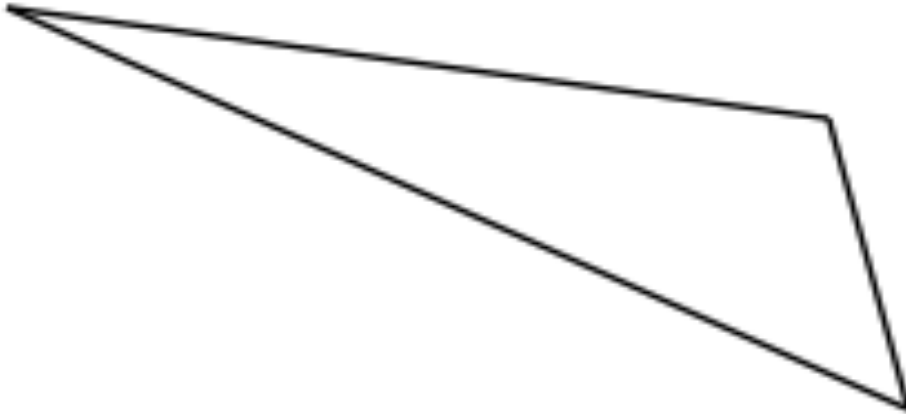
7 In the squares, write a multiple that belongs to each set.

One has been done for you.

numbers from 1 to 99	multiple of	20	40
numbers from 101 to 199	multiple of	40	
numbers from 201 to 299	multiple of	10	
numbers from 301 to 399	multiple of	30	

2 marks

9 Here is a triangle.



Measure the shortest side accurately, in centimetres.

 cm

1 mark

Measure the largest angle.

 °

1 mark

10

Write the missing digits to make this long multiplication correct.

$$\begin{array}{r}
 4 \square \\
 \times \square 7 \\
 \hline
 322 \\
 920 \\
 \hline
 1242
 \end{array}$$

 2 marks

11 Here is a number written in Roman numerals.

CCIX

Write the number in figures

1 mark

12 What number is halfway between 1.2 and 2.9 ?

1 mark

13 Round 535,991

to the nearest 10,000

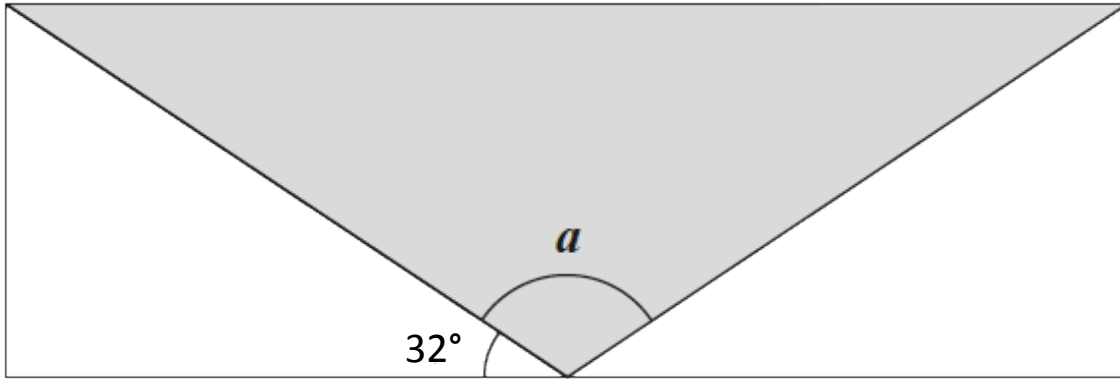
to the nearest 1,000

to the nearest 100

2 marks

R5

14 A shaded isosceles triangle is drawn inside a rectangle.



Not to scale

Calculate the size of angle a .

Show your method

a is °

2 marks

16 Seven children measure their heights.

Child	Height (cm)
Brian	142
Ray	154
James	143
Dale	139
Mel	142
Harry	141
Pierre	147

What is the mean height of the children?

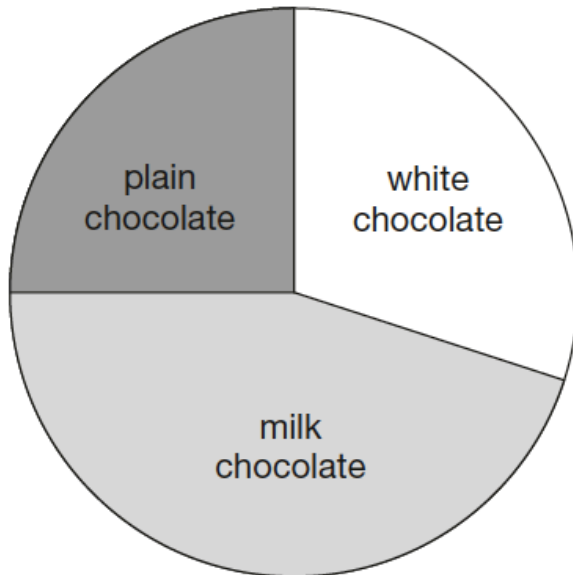
Show your method

cm

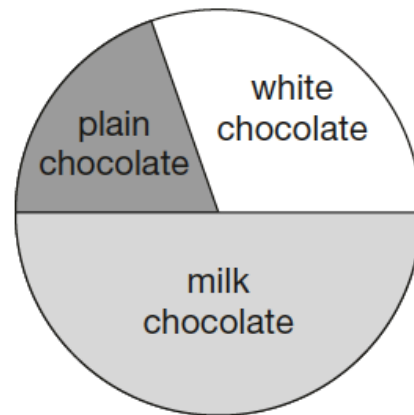
2 marks

17 100 girls and 250 boys were asked which kind of chocolate they like best.

These two pie charts show the results.



100 girls



250 boys

Jonny says,

"The pie charts show that more girls than boys liked milk chocolate best."

Jonny is wrong.

Explain how you know.

1 mark

