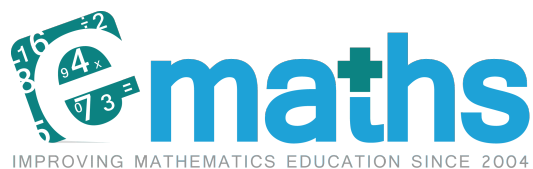


National curriculum tests

Key stage 2

Practice Paper: Reasoning R3

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:

Show your method

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.**

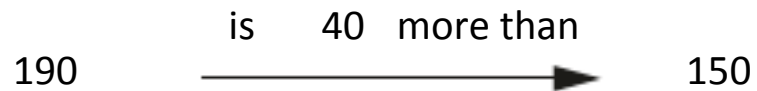
Marks

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

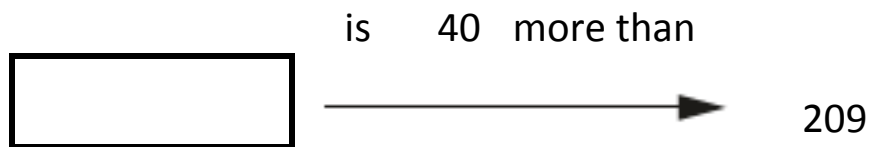
1 Write the missing number.

One is done for you.

190 is 40 more than 150



is 40 more than 209



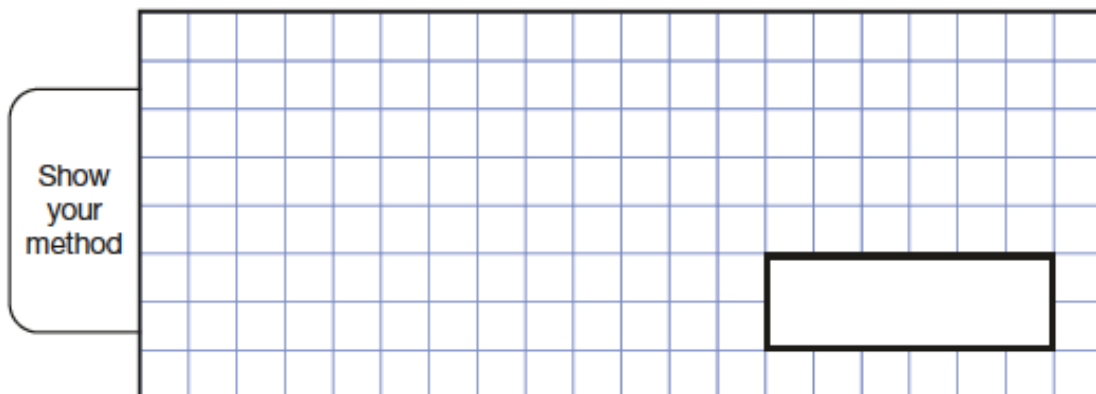
1 mark

2 A packet of paper has 140 sheets

5 children each take 7 sheets

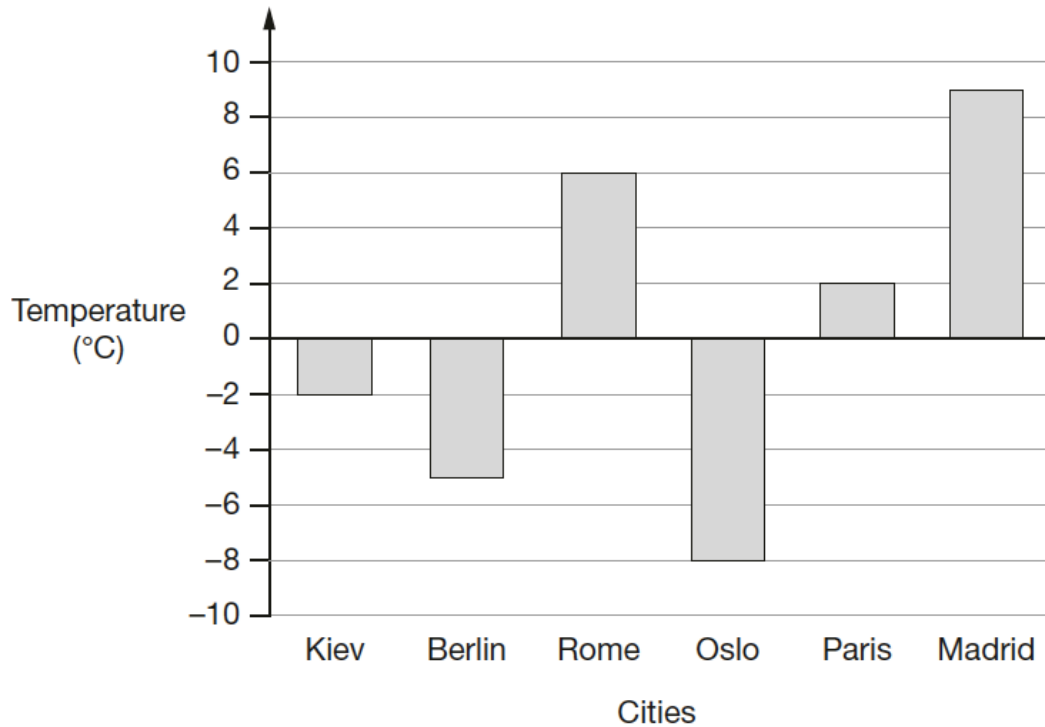
How many sheets of paper are left in the packet?

Show your method



2 marks

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



Which city was 3 degrees **warmer** than Oslo?

1 mark

What was the **difference** between the temperature in **Kiev** and the temperature in **Madrid**?

°C

1 mark

4 Here are some shapes made of squares.

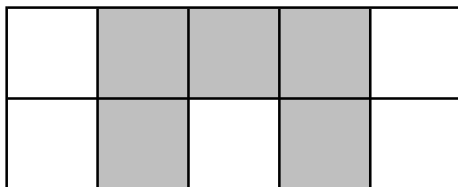
A fraction of each shape is shaded.

Match each shape to its equivalent fraction.

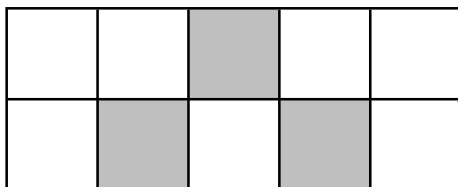
One has been done for you.



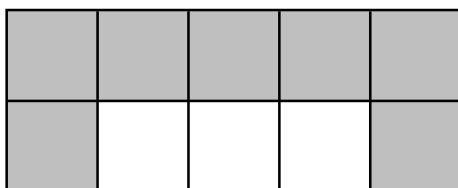
$$\frac{7}{10}$$



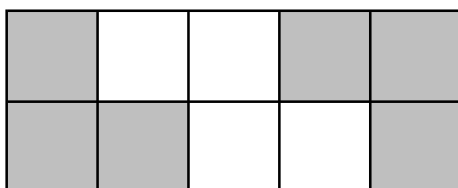
$$\frac{2}{5}$$



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



$$\frac{3}{5}$$



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

2 marks

5

What is **455** minutes in hours and minutes?

hours

minutes

1 mark

6

Julie's watch shows five minutes past nine.

The watch is **eleven** minutes fast

What is the correct time?

1 mark

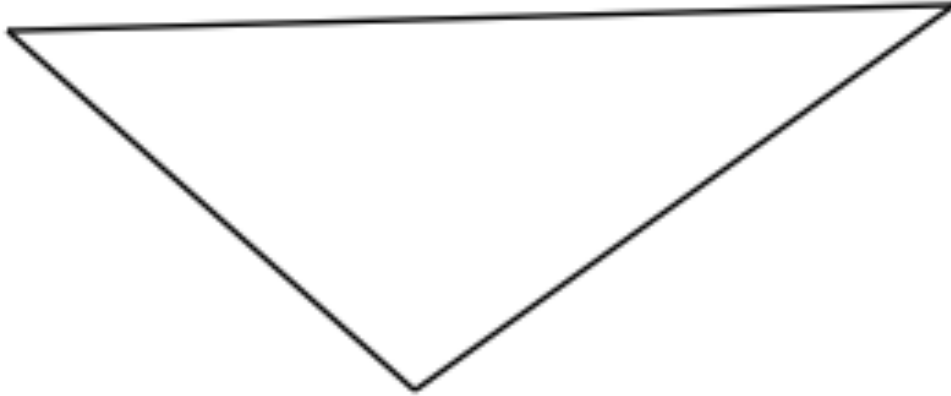
7 In the squares, write a multiple that belongs to each set.

One has been done for you.

numbers from 1 to 99	multiple of	30	60
numbers from 101 to 199	multiple of	10	
numbers from 201 to 299	multiple of	20	
numbers from 301 to 399	multiple of	40	

2 marks

9 Here is a triangle.



Measure the shortest side accurately, in centimetres.

1 mark

Measure the largest angle.

1 mark

10

Write the missing digits to make this long multiplication correct.

$$\begin{array}{r}
 4 \square \\
 \times \square 9 \\
 \hline
 387 \\
 860 \\
 \hline
 1247
 \end{array}$$

 2 marks

11 Here is a number written in Roman numerals.

LXIV

Write the number in figures

1 mark

12 What number is halfway between 2.1 and 3.4 ?

1 mark

13 Round 421,245

to the nearest 10,000

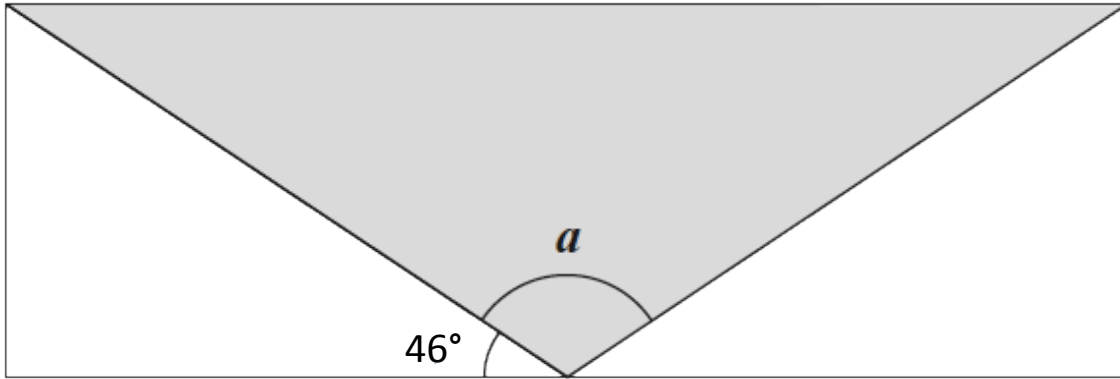
to the nearest 1,000

to the nearest 100

2 marks

R3

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

15 Large pizzas cost £9.50 each.

Small pizzas cost £5.95 each.

4 children together buy 6 large pizza and 4 small pizzas.

They share the cost equally.

How much does each child pay?

Show your method

£

2 marks

16 Seven children measure their heights.

Child	Height (cm)
Hannah	145
Stephen	140
Jessica	132
Ling	144
Jon	151
Asad	153
Jack	143

What is the mean height of the children?

Show your method

cm

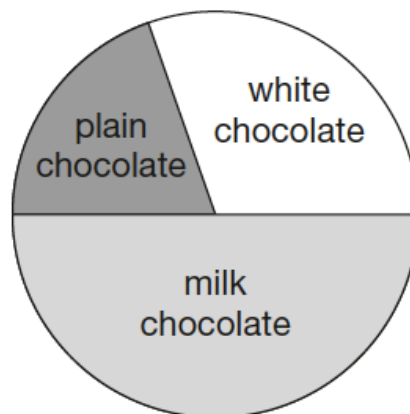
2 marks

17 150 girls and 90 boys were asked which kind of chocolate they like best.

These two pie charts show the results.



150 girls



90 boys

Nick says,

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

Nick is correct.

Explain how you know.

A large, empty, cloud-shaped box with a scalloped border, intended for the student to write their explanation.

1 mark

18 One gram of gold costs £29.65

What is the cost of half a kilogram of gold?

Show your method

£

2 marks

19 On Saturday, Lara read $\frac{2}{7}$ of her book.



On Sunday, she read the other 90 pages to finish her book.

How many pages are there in Lara's book?

Show your method

pages

2 marks