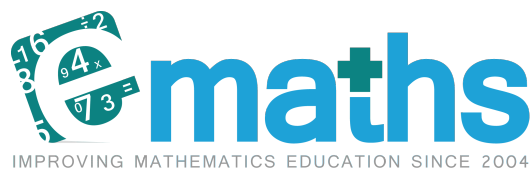


National curriculum tests

Key stage 2

Practice Paper: Reasoning R2

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.

170 is 20 more than 150

—————→

 is 20 more than 387

—————→

1 mark

2

A packet of paper has 170 sheets

4 children each take 8 sheets

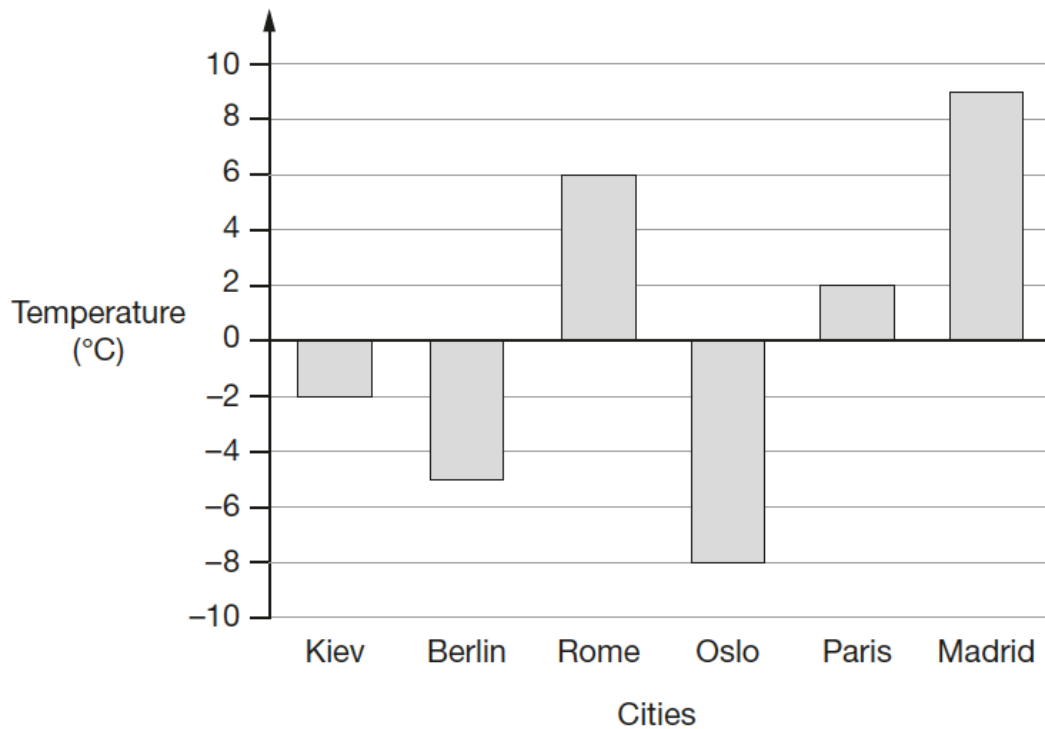
How many sheets of paper are left in the packet?

Show your method

2 marks

3

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



Which city was 7 degrees **colder** than Paris?

 1 mark

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

°C

 1 mark

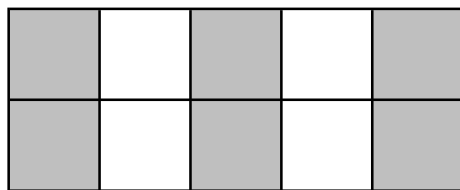
4

Here are some shapes made of squares.

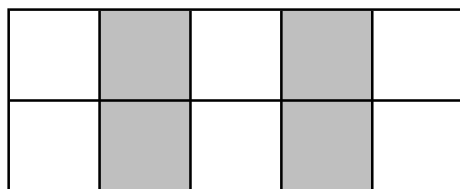
A fraction of each shape is shaded.

Match each shape to its equivalent fraction.

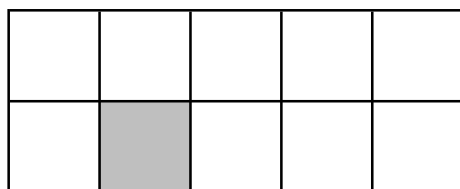
One has been done for you.



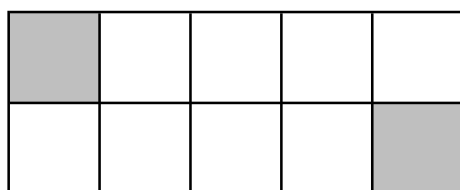
$$\frac{1}{10}$$



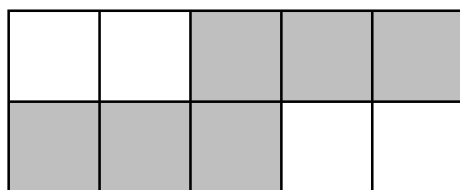
$$\frac{2}{10}$$



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



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



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

2 marks

R2

5

What is **396** minutes in hours and minutes?

hours

minutes

1 mark

6

Julie's watch shows five minutes past nine.

The watch is nineteen 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 10

50

numbers from 101 to 199

multiple of 20

numbers from 201 to 299

multiple of 30

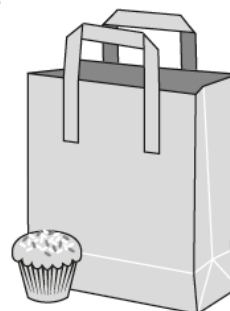
numbers from 301 to 399

multiple of 40

2 marks

8 Maria bakes cakes and sells them in bags.

She uses this formula to work out how much to charge for one bag of cakes.



$$\text{Cost} = \text{number of cakes} \times 25 \text{ p} + 20 \text{ p for the bag}$$

How much will a bag of 10 cakes cost?

£

1 mark

Olivia buys a bag of cakes for £5.70

Use the formula to calculate how many cakes are in the bag.

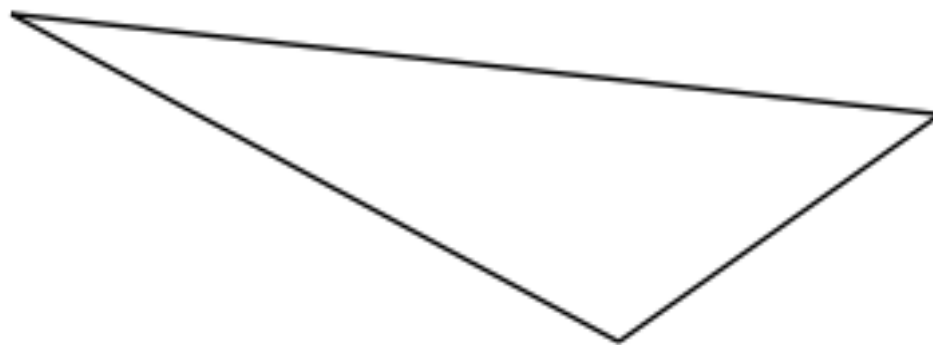
Show
your
method

cakes

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.

$$\begin{array}{r}
 4 \square \\
 \times \square 4 \\
 \hline
 1 7 2 \\
 8 6 0 \\
 \hline
 1 0 3 2
 \end{array}$$

 2 marks

- 11 Here is a number written in Roman numerals.

CXLVIII

Write the number in figures

1 mark

- 12 What number is halfway between 1.3 and 2.2 ?

1 mark

- 13 Round 326,162

to the nearest 10,000

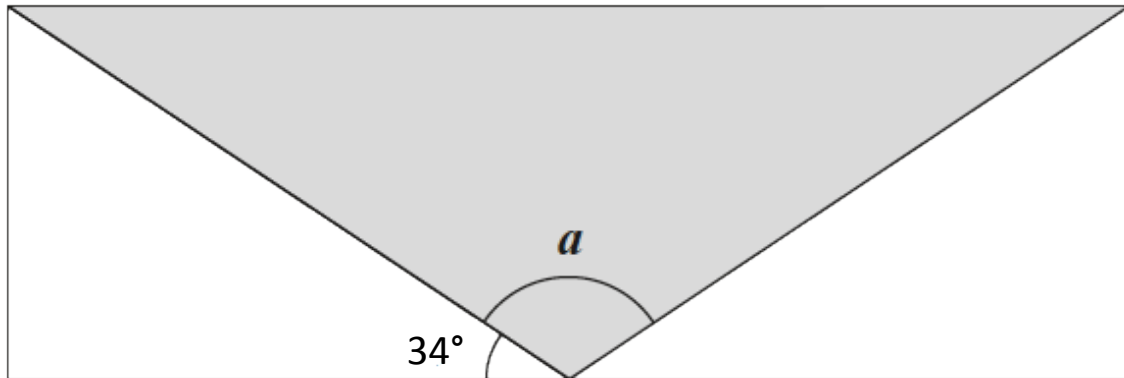
to the nearest 1,000

to the nearest 100

2 marks

R2

- 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 £6.55 each.

5 children together buy 2 large pizza and 3 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)
Stefan	145
Lara	135
Olivia	142
Chen	140
Maria	151
Dev	152
Sarah	143

What is the mean height of the children?

Show
your
method

cm

2 marks

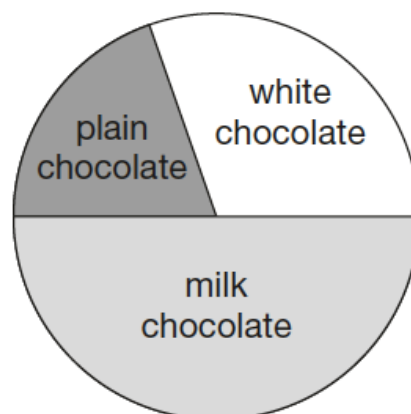
17

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

These two pie charts show the results.



40 girls



90 boys

Dev says,

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

Dev is wrong.

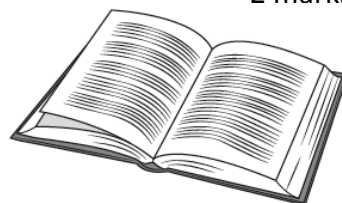
Explain how you know.

1 mark

Show
your
method

£

19 On Saturday, Lara read $\frac{2}{5}$ of her book.



Show
your
method

pages

Copyright 2016 Emaths | www.emaths.co.uk | For Free Educational Use Only