National curriculum tests

Key stage 2

Practice Paper: Reasoning R8

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

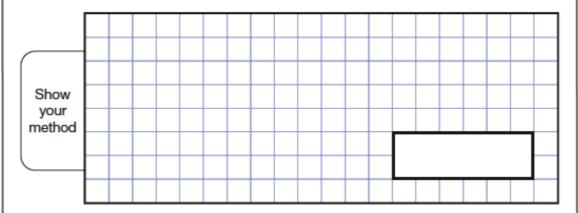
You have 40 minutes to complete this test.

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:



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.

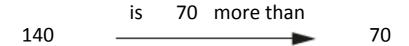
If you finish before the end, go back and check your work.

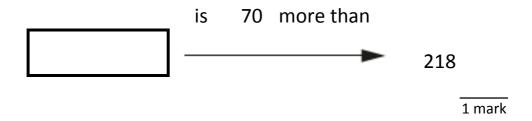
Marks

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.

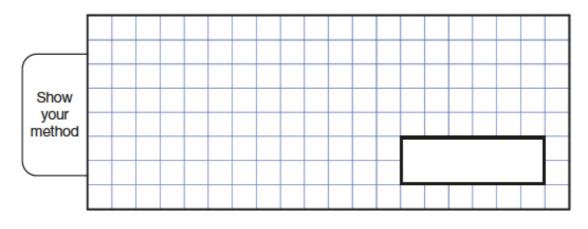




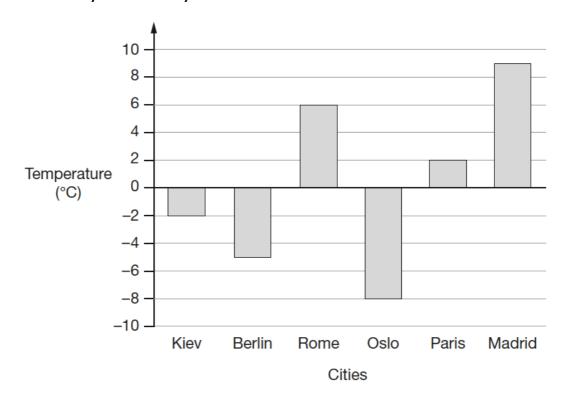
A packet of paper has 300 sheets

4 children each take 7 sheets

How many sheets of paper are left in the packet?



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



Which city was 11 degrees colder than Madrid?

1 mark

What was the **difference** between the temperature in **Rome** and the temperature in **Oslo?**



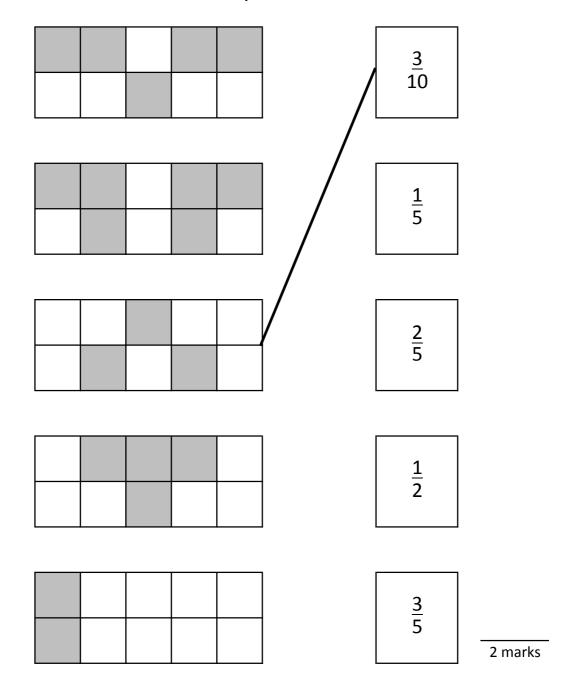
1 mark

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.



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hours

minutes

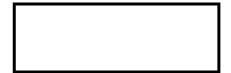
1 mark

6 Jude's watch shows five minutes past nine.

The watch is thirteen minutes fast



What is the correct time?



1 mark

2 marks

One has been done for you.			
numbers from 1 to 99	multiple of	10	40
numbers from 101 to 199	multiple of	30	
numbers from 201 to 299	multiple of	40	
numbers from 301 to 399	multiple of	20	

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

Gill bakes cakes and sells them in bags.

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



Cost = number of cakes \times 25 p + 15 p for the bag

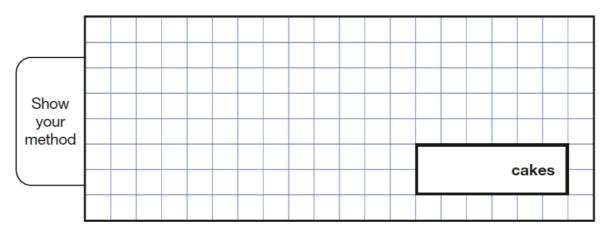
How much will a bag of 15 cakes cost?

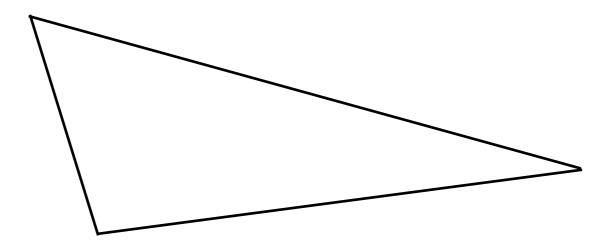


1 mark

Phil buys a bag of cakes for £4.65

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



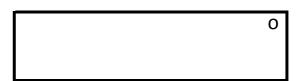


Measure the longest side accurately, in centimetres.



1 mark

Measure the smallest angle.



1 mark

Write the missing digits to make this long multiplication correct.

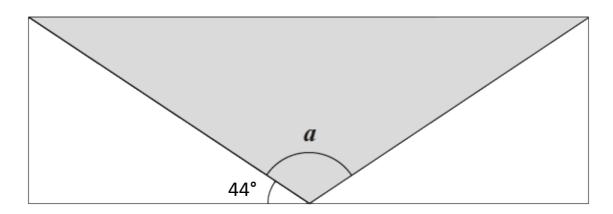
		4	
×			7
	2	9	4
	8	4	0
1	1	3	4

Here is a number written in Roman numerals.

DXIII

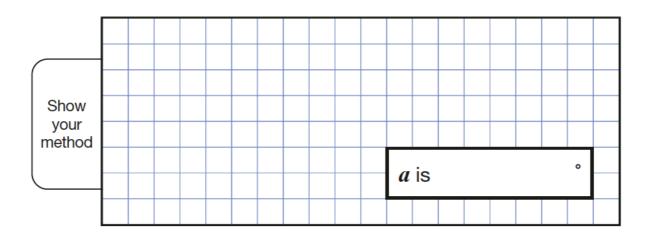
	Write the number in f	igures				
						1 mark
12	What number is halfw	ay between	1.7	and	3.2	?
						1 mark
13	Round 162,835					
	to the nearest 10,000					
	to the nearest 1,000					
	to the nearest 100					

A shaded isosceles triangle is drawn inside a rectangle.



Not to scale

Calculate the size of angle a.



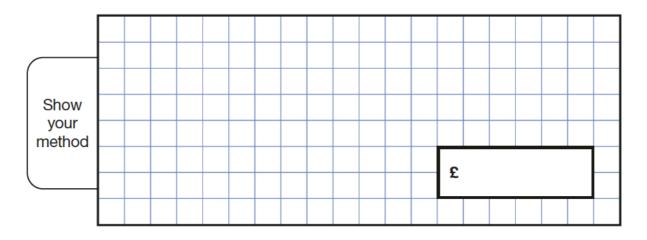
15 Large pizzas cost £9.50 each.

Small pizzas cost £6.25 each.

5 children together buy 2 large pizza and 6 small pizzas.

They share the cost equally.

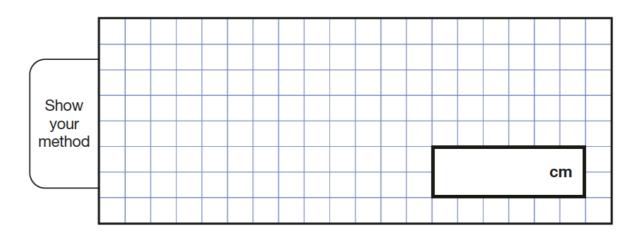
How much does each child pay?



Seven chidren measure their heights.

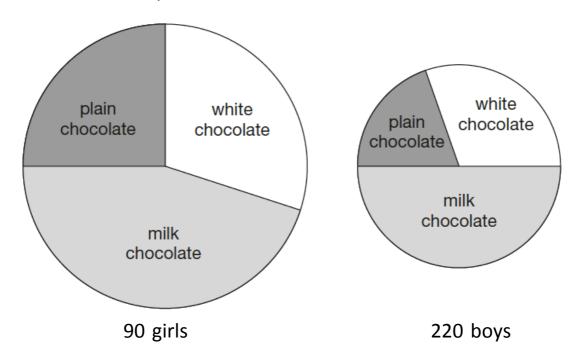
Child	Height (cm)		
Bill	152		
Gill	143		
Phil	149		
Will	150		
Harry	145		
Carrie	137		
Barry	139		

What is the mean height of the children?



90 girls and 220 boys were asked which kind of chocolate they like best.

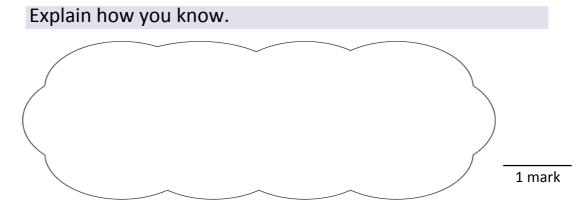
These two pie charts show the results.



Steve says,

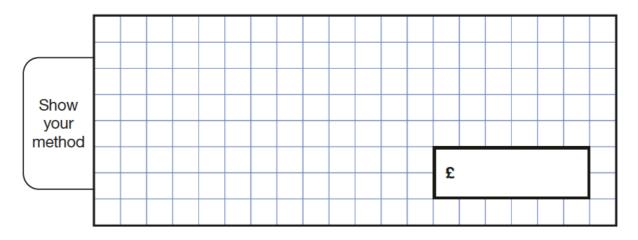
"The pie charts show that more girls than boys liked milk chocolate best."

Steve is wrong.



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What is the cost of half a kilogram of gold?



On Saturday, Lara read $\frac{3}{8}$ of her book.



On Sunday, she read the other 280 pages to finish her book.

How many pages are there in Lara's book?

