

## Friday 9th February 2024

Please complete the following:

As SATs are approaching, I have provided you with lots of different revision activities, including past papers, so you are fully prepared for May. These are for you to complete in your own time, however, try and do the papers in timed conditions. Try and have a go at all of the papers but the minimum is to complete the **Maths Reasoning Paper 2.** 

English	Spellings  Practice your spellings. These will be unleaded on Spelling shed
	Practise your spellings. These will be uploaded on Spelling shed too. You will have a test on Friday.
	too. Tou thin have a test on Thau,
	2016 past paper 1- Punctuation and Grammar 45mins
	2016 past paper – Reading paper 60mins
Mathematics	2016 past paper 1 – Arithmetic 30mins
	2016 past paper 2- Reasoning 40mins
	2010 past paper 2- Reasoning 40mms
	2016 past paper 3 – Reasoning 40mins
Other	- <u>Maths.co.uk</u> live test.
	- Spag.com live test.
	- Year 3/4&5/6 word lists

Please make sure your main homework is handed in by Wednesday.

If you need any further guidance on how to complete the tasks, please ask! Don't leave it until Wednesday!

Remember, have a go and try your best!

Have a lovely half term!

# 2016 national curriculum tests

# Key stage 2

# **Mathematics**

Paper 2: reasoning

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



# [BLANK PAGE]

Please do not write on this page.



Page **2** of **24** 

## **Instructions**

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

#### **Questions and answers**

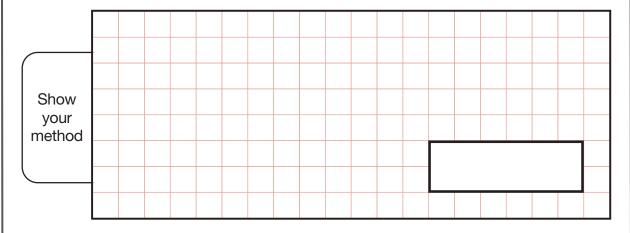
You have 40 minutes to complete this test.

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 a question, **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.



Page 3 of 24

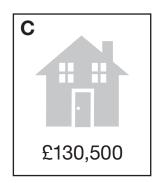
7 th pate these live hambers in their correct places on a hamber lin	1	these five numbers in their correct places on a number line.
--	---	--

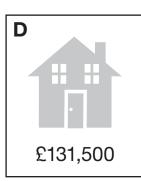
5	511	499	502	555	455	
Write the	he number	closest to 50	00			
						1 mark
Write t	he number	furthest from	n 500			
						1 mark

2











Put these houses in order of price starting with the **lowest price**.

One has been done for you.

D

lowest 1 mark





This table shows the number of people living in various towns in England.

Town	Population	
Bedford	82,448	
Carlton	48,493	
Dover	34,087	
Formby	24,478	
Telford	166,640	

What is the **total** of the numbers of people living in Formby and in Telford?

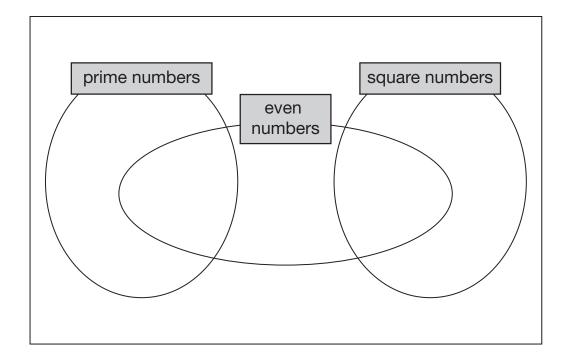
1 mark

What is the **difference** between the numbers of people living in Bedford and in Dover?



Write each number in its correct place on the diagram.

16 17 18 19

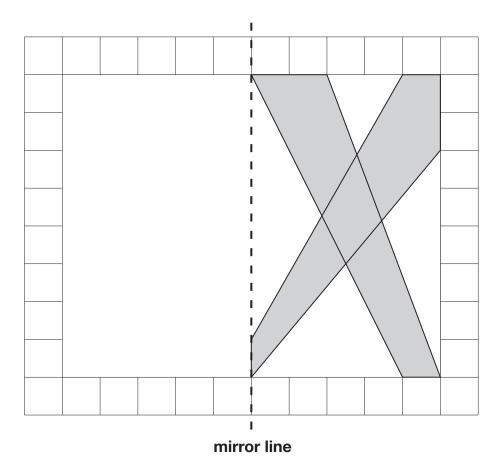




This diagram shows a shaded shape inside a border of squares.

Draw the reflection of the shape in the mirror line.

Use a ruler.





$$\frac{\boxed{\phantom{0}}}{3} = \frac{8}{12} = \frac{4}{\boxed{\phantom{0}}}$$

1 mark

1 mark

8 Circle two numbers that add together to equal 0.25

0.05

0.23

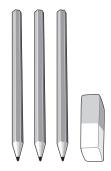
0.2

0.5

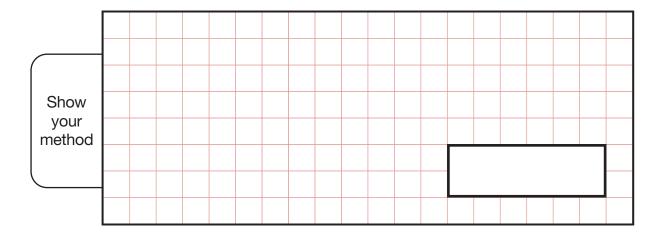
6 pencils cost £1.68



3 pencils and 1 rubber cost £1.09



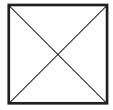
### What is the cost of 1 rubber?

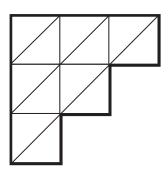


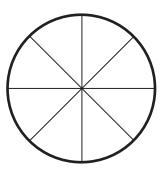


Each diagram below is divided into equal sections.

Shade three-quarters of each diagram.







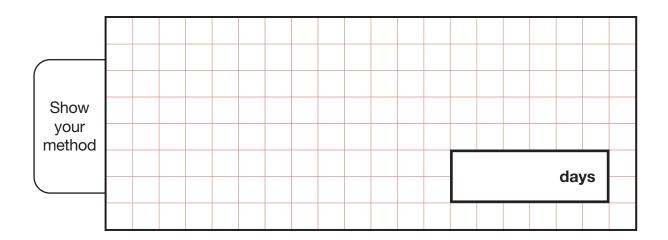


A packet contains 1.5 kg of oats.



Every day Maria uses 50 g of oats to make porridge.

How many days does the packet of oats last?





12

$$n = 22$$

What is 2n + 9?



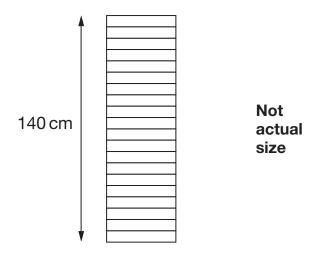
1 mark

$$2q + 4 = 100$$

Work out the value of q.

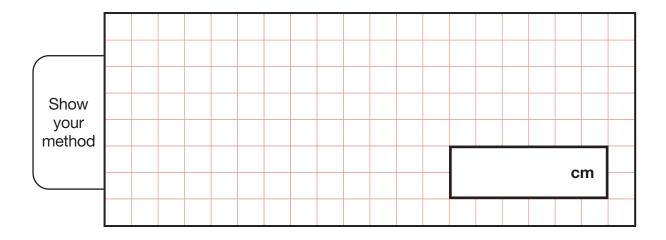
$$q =$$

A stack of 20 identical boxes is 140 cm tall.



Stefan takes three boxes off the top.

How tall is the stack now?

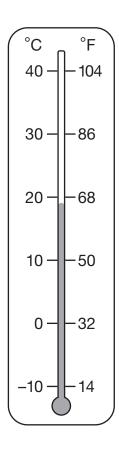




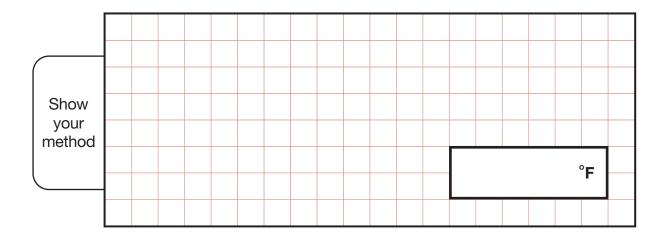


This thermometer shows temperatures in both °C and °F.

15



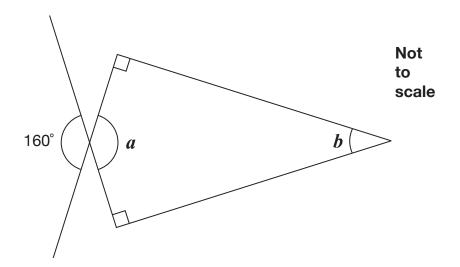
Work out what 25 °C is in °F.





Write the number that is five less than <b>ten million</b> .
Write the number that is one hundred thousand less than <b>six million</b> .

Calculate the size of angles a and b in this diagram.



$$a =$$

1 mark

1 mark

Write the missing number.

Miss Mills is making jam to sell at the school fair.

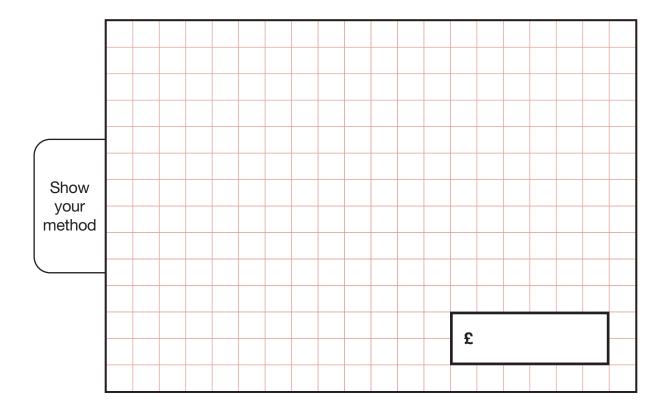
Strawberries cost £7.50 per kg.

Sugar costs 79p per kg.

10 glass jars cost £6.90

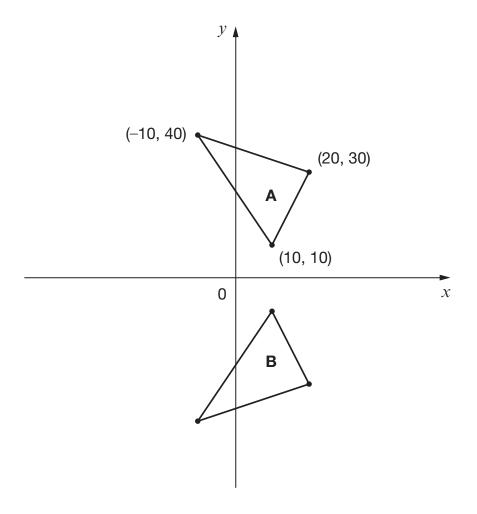
She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.





Here are two triangles drawn on coordinate axes.



Triangle B is a reflection of triangle A in the x-axis.

Two of the new vertices of triangle B are (10, -10) and (20, -30).

What are the coordinates of the third vertex of triangle B?

( , )

# [END OF TEST]

Please do not write on this page.



Page **22** of **24** 

# [BLANK PAGE]

Please do not write on this page.





2016 key stage 2 mathematics

Paper 2: reasoning

Print version product code: STA/16/7376/p ISBN: 978-1-78315-933-8

Electronic PDF version product code: STA/16/7376/e ISBN: 978-1-78315-934-5

#### For more copies

Additional printed copies of this booklet are not available. It can be downloaded from www.gov.uk/government/publications.

© Crown copyright and Crown information 2016

#### Re-use of Crown copyright and Crown information in test materials

Subject to the exceptions listed below, the test materials on this website are Crown copyright or Crown information and you may re-use them (not including logos) free of charge in any format or medium in accordance with the terms of the Open Government Licence v3.0 which can be found on the National Archives website and accessed via the following link: www.nationalarchives.gov.uk/doc/open-government-licence. When you use this information under the Open Government Licence v3.0, you should include the following attribution: 'Contains public sector information licensed under the Open Government Licence v3.0' and where possible provide a link to the licence.



#### Exceptions - third-party copyright content in test materials

You must obtain permission from the relevant copyright owners, as listed in the '2016 key stage 2 tests copyright report', for re-use of any third-party copyright content which we have identified in the test materials, as listed below. Alternatively you should remove the unlicensed third-party copyright content and/or replace it with appropriately licensed material.

#### Third-party content

These materials contain no third-party copyright content.

If you have any queries regarding these test materials contact the national curriculum assessments helpline on 0300 303 3013 or email assessments@education.gov.uk.

