

Key Stage Two

Mathematics

Reasoning — Sample

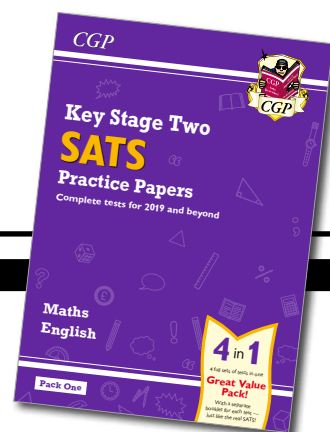
SATS Practice Paper

This is an extract from CGP's *New KS2 Complete SATS Practice Papers: Maths & English (for 2019 and beyond)* — Pack 1. The full paper and the real SATs are longer.

Contents:

- Sample Questions
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Sample Questions

1

Write each of these as **numbers**.

Seventy-five thousand, two hundred and thirty-eight.

1 mark

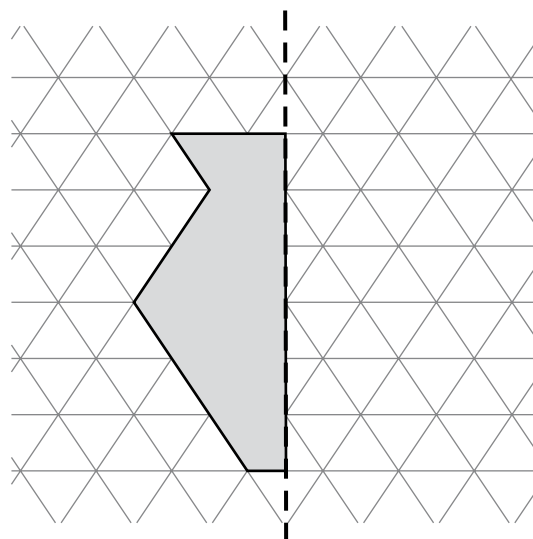
Four hundred and eighty-six thousand, two hundred and fourteen.

1 mark

2

Part of a shape has been drawn below.

Complete the shape so that it is symmetrical about the mirror line.



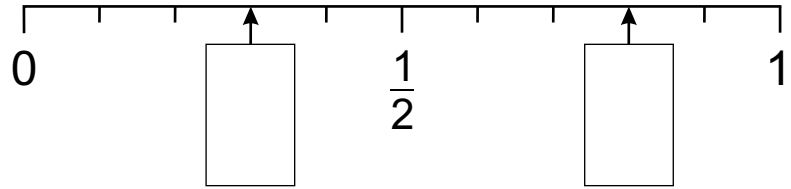
Mirror line

1 mark

5

Here is a number line.

Fill each box with the correct fraction. Give each fraction in its simplest form.



2 marks

6

A TV channel shows two news programmes each day. The times that these programmes start and finish are shown below.

Find the length of each programme.

Morning News
Start 8:05 am
Finish 8:45 am
Length: minutes

Evening News
Start 9:50 pm
Finish 10:25 pm
Length: minutes

2 marks

One day, the start of the morning news is delayed by **19 minutes**. The length of the programme does not change.

What time does the morning news **finish** on this day?

1 mark

7

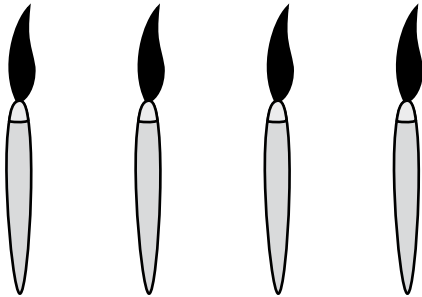
Fill in the next two numbers in this sequence.

27, 35, 43, 51, ,

1 mark

8

Tom buys four paint brushes.



He pays with a £5 note and gets £1.20 change.

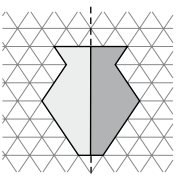
How much does **one** paint brush cost?

Show
your
working

A large grid for showing working, consisting of 20 columns and 12 rows. A small empty box is drawn in the bottom right corner, spanning 4 columns and 2 rows.

2 marks

Answers

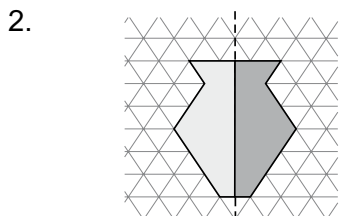
Qu.	Requirement	Guidance	Marks (Domain)
1a	75 238		1 (5N2)
1b	486 214		1 (5N2)
2			1 (4G2c)
3a	Canada ($14^{\circ}\text{C} - 18^{\circ}\text{C} = -4^{\circ}\text{C}$)		1 (5N5/6N5)
3b	14°C ($-8^{\circ}\text{C} + 14^{\circ}\text{C} = 6^{\circ}\text{C}$)		1 (5N5/6N5)
4	They buy $8 \times 6 = 48$ bottles of water, so in total they have: $\begin{array}{r} 679 \\ + 48 \\ \hline 727 \end{array}$ 727 bottles	2 marks for the correct answer, otherwise 1 mark for a correct method.	2 (3C4/3C8)
5	$\frac{3}{10}$ and $\frac{8}{10} = \frac{4}{5}$	1 mark for each correct fraction.	2 (3F1c/4F2)
6a	Morning News: 40 minutes Evening News: 35 minutes	1 mark for each correct answer.	2 (3M4f)
6b	The morning news finishes 19 minutes after 8:45 am. 19 minutes = 15 minutes + 4 minutes 15 minutes after 8:45 am is 9 am, and 4 minutes after 9 am is 9:04 am (or 4 minutes past 9).		1 (3M4f)
7	59, 67		1 (6A3)
8	$\begin{array}{r} 45.100 \\ - 1.20 \\ \hline 3.80 \\ \hline 95 \end{array}$ One paintbrush = $\text{£}3.80 \div 4$ $4 \overline{) 380}$ 380 is 100 times bigger than 3.80, so divide by 100 to get the answer. $95 \div 100 = \text{£}0.95$ (or 95p)	2 marks for the correct answer, otherwise 1 mark for a correct method.	2 (5M9a/6C8)

Pupil-friendly Answers

Ask your teacher if you're not sure how many marks to give.

1a. **75 238**

1b. **486 214**



3a. **Canada** because $14\text{ }^{\circ}\text{C} - 18\text{ }^{\circ}\text{C} = -4\text{ }^{\circ}\text{C}$

3b. France is $6\text{ }^{\circ}\text{C}$, Finland is $-8\text{ }^{\circ}\text{C}$
The difference between $6\text{ }^{\circ}\text{C}$ and $-8\text{ }^{\circ}\text{C}$ is $14\text{ }^{\circ}\text{C}$, so France is **$14\text{ }^{\circ}\text{C}$** warmer than Finland.

4. They buy $8 \times 6 = 48$ bottles of water, so in total they have:

$$\begin{array}{r} 679 \\ + 48 \\ \hline 727 \end{array} \text{ bottles}$$

1 1

Give **2 marks** if the answer is **727**.
Give **1 mark** if the answer is wrong but they've used a sensible method.

5. $\frac{3}{10}$ and $\frac{8}{10} = \frac{4}{5}$

Give **1 mark** for each correct fraction.

6a. Morning News: 8:05 to 8:45 is **40 minutes**
Evening News: 9:50 to 10:25 is **35 minutes**
Give **1 mark** for each correct answer.

6b. The morning news finishes
19 minutes after 8:45 am.
 $19\text{ minutes} = 15\text{ minutes} + 4\text{ minutes}$
15 minutes after 8:45 am is 9 am,
and 4 minutes after 9 am is **9:04 am**
(or **4 minutes past 9** or **09:04**).

7. **59, 67**
The sequence is going up in steps of 8.
Give **1 mark** if both numbers are correct.

8.

$$\begin{array}{r} \cancel{5} . 10 \ 0 \\ - 1 . 2 \ 0 \\ \hline 3 . 8 \ 0 \end{array}$$

Four paintbrushes cost £3.80
One paintbrush costs $\text{£}3.80 \div 4 = 380\text{p} \div 4$

$$4 \overline{) 3820}$$

One paintbrush costs **95p** or **£0.95**
Give **2 marks** if the answer is **95p** or **£0.95**.
Give **1 mark** if the answer is wrong but they've used a sensible method.