

# Key stage 1

## Mathematics

### Paper 2: reasoning

First name	
Middle name	
Last name	

# SAMPLE BOOKLET

Published July 2015

This sample test indicates how the national curriculum will be assessed from 2016. Further information is available on GOV.UK at [www.gov.uk/sta](http://www.gov.uk/sta).

Total marks	
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Sourced from SATs-Papers.co.uk

<https://www.SATs-Papers.co.uk>

2

tens
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3



2 cm    2 kg    2 °C    2 l

Sourced from SATs-Papers.co.uk

<https://www.SATs-Papers.co.uk>

### Practice question



ladybirds
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1

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Sourced from SATs-Papers.co.uk

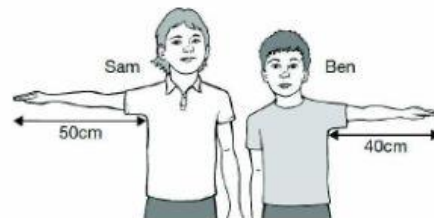
<https://www.SATs-Papers.co.uk>

4



pieces of paper
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6

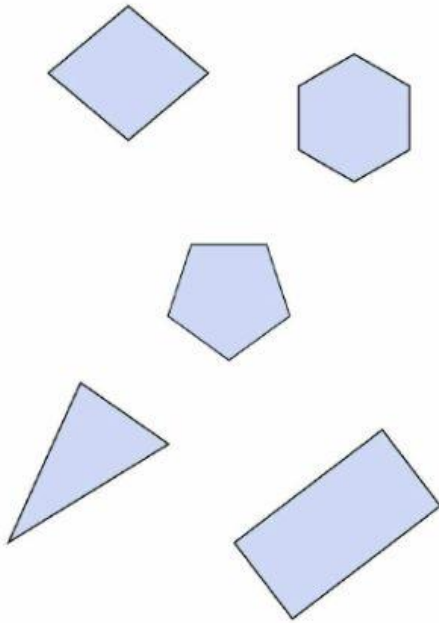


cm
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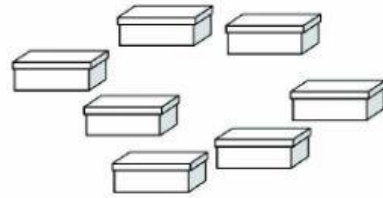
Sourced from SATs-Papers.co.uk

<https://www.SATs-Papers.co.uk>

- 6 Look at the shapes.  
Tick (✓) the hexagon.



7



Sita puts **2** shoes in each of these boxes.  
How many shoes are there altogether?

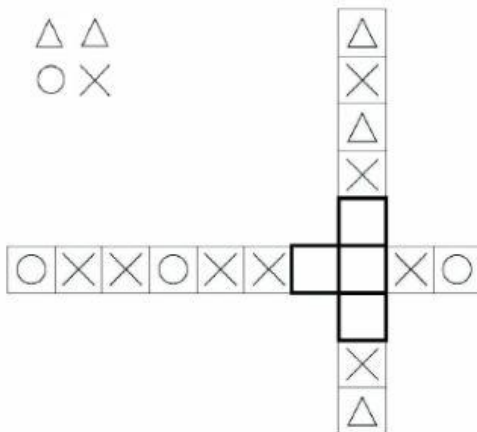
shoes

- 8 Complete the table.

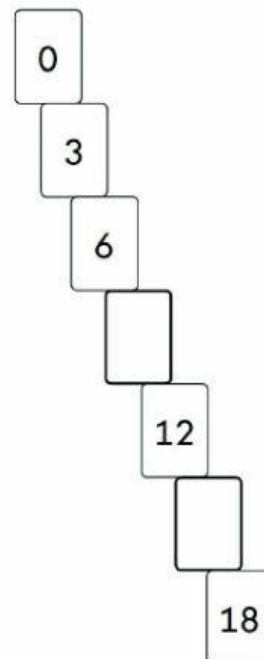
words	digits
thirty-eight	38
	40
ninety-four	

- 9 Here are two shape patterns.

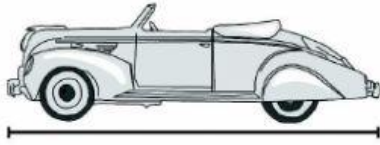
Draw a shape in each empty box to make the patterns correct.



- 10 Write the **two** missing numbers in this pattern.



11 Use a ruler to measure the length of the toy car.



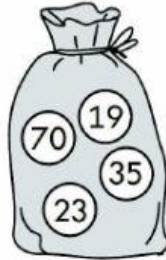
cm

12 Two of the numbers are in the **wrong** bag.

Draw a cross (X) on each of them.

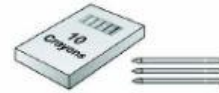


even numbers



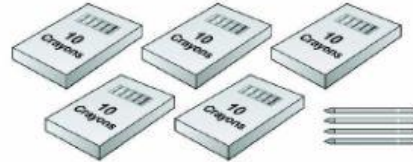
odd numbers

13 Ben has 13 crayons.



Here are Abdul's crayons.

How many crayons does Abdul have?



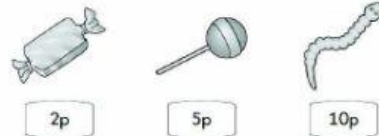
crayons

14 One shape is in the **wrong** place on the sorting grid.

Draw a cross (X) on it.

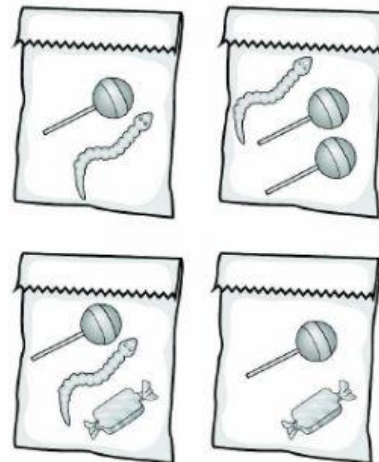
Shapes with a square face	Shapes without a square face

15 A shop sells these sweets.



Abdul spends exactly 20p on sweets.

Tick (✓) the bag of sweets he buys.



16



Sita cuts a pizza into four equal slices.

She eats one slice.

What fraction of the pizza does she eat?

17

Sam is collecting cards.

He wants to collect **100** cards altogether.

Last week he collected **50** cards.

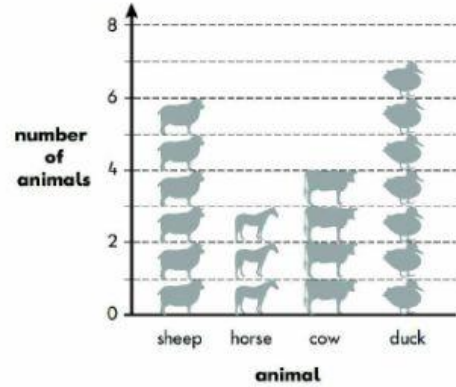
This week he collects **30** cards.

How many **more** cards does he need?



18

This diagram shows the number of animals at a farm.



(a) How many sheep and cows are there altogether?

(b) There are more ducks than horses. How many more?

19

Amy buys an ice-cream for 90p.



(a) Tick (✓) **three** coins to show how Amy can make **90p**.



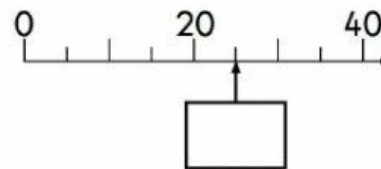
(b) Tick (✓) **four** coins to show another way to make **90p**.



20

Look at the number line.

Write the correct number in the box.

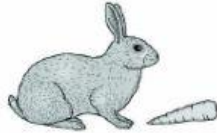


21

Draw a line of symmetry on each of these shapes.



- 22 Amy plants 4 rows of carrots.  
There are 3 carrots in each row.  
A rabbit eats 2 of the carrots.



How many carrots are left?

Show your working

carrots

2 marks

- 23 Amy writes an answer to the calculation below.

$$57 - 31 = \boxed{26}$$

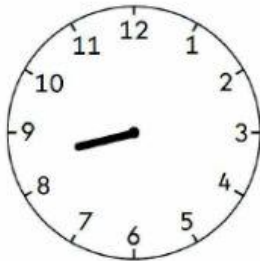
Now write an addition to check Amy's answer.

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

- 24 Write a digit in each box to make the sum correct.

$$\boxed{7} \boxed{\phantom{0}} + \boxed{\phantom{0}} = \boxed{8} \boxed{3}$$

- 25 Draw the minute hand on the clock to show twenty-five past eight.



- 26 Amy makes 20 cakes.

She shares the cakes between 5 plates.

Tick the calculation that shows how many cakes are on each plate.



- Tick one.
- 20 + 5 = 25
- 20 - 5 = 15
- 20 ÷ 5 = 4
- 20 × 5 = 100

- 27 Sita has **50** raisins.  
She gives **23** to Ben.  
She gives **15** to Amy.



How many raisins does Sita have left?

Show your working

raisins

2 marks

- 28 Abdul goes to the zoo.  
He finds out the mass of some animals.



Compare the mass of the animals.

Write **<** or **>** or **=** in each box.

Cheetah's mass	<input style="width: 40px; height: 25px;" type="text"/>	Tiger's mass
Tiger's mass	<input style="width: 40px; height: 25px;" type="text"/>	Lion's mass

2 marks

- 29 Do these calculations have the same answer?  
Write **yes** or **no** next to each box.  
One is done for you.

$8 + 2$ and $2 + 8$	yes or no? <hr style="width: 50px; margin: 0;"/> yes
---------------------	---

$8 \times 2$ and $2 \times 8$	<hr style="width: 50px; margin: 0;"/>
-------------------------------	---------------------------------------

$8 - 2$ and $2 - 8$	<hr style="width: 50px; margin: 0;"/>
---------------------	---------------------------------------

$8 \div 2$ and $2 \div 8$	<hr style="width: 50px; margin: 0;"/>
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2 marks

- 30 Look at these fractions.



Circle the **two** fractions that are **equal**.

- 31 Complete the number sentence below.

$$3 \times 8 = 2 \times \square$$

END OF TEST



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