2023 national curriculum tests



Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

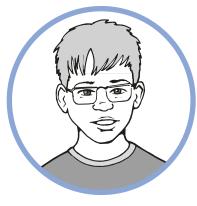
Total marks



Ajay



Amy



Ben

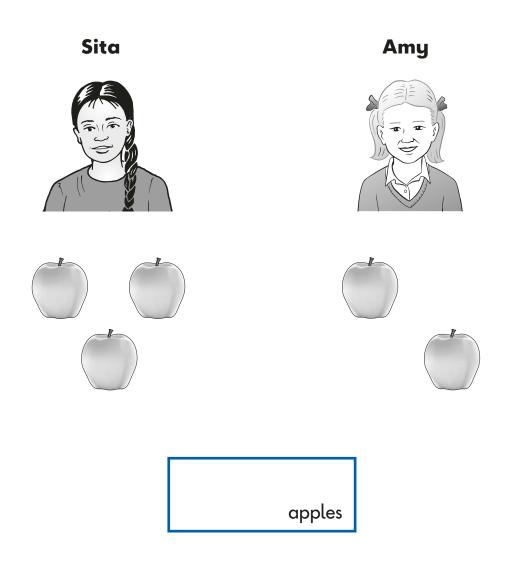


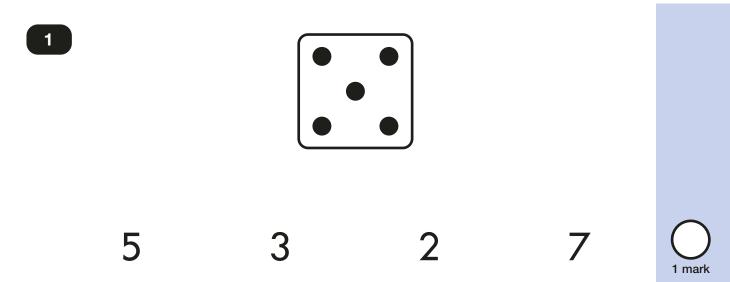
Kemi



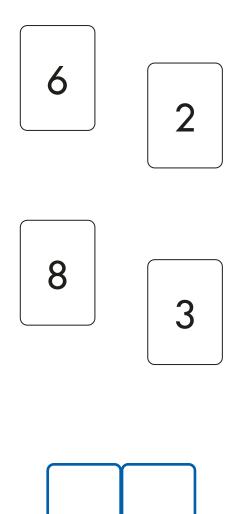


Practice question





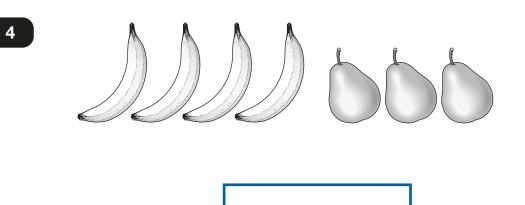
2



0 1 mark







oranges

1 mark

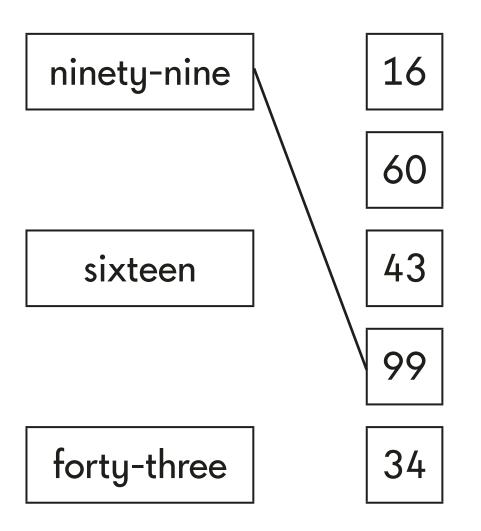




Match the words to the correct numerals.

One is done for you.

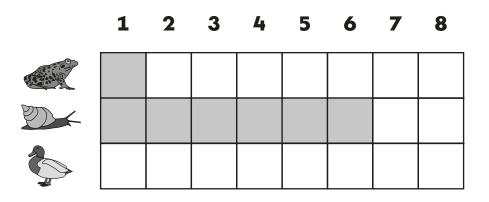
6



O 1 mark This block diagram shows how many animals are in a pond.

There are **4 ducks** in the pond.

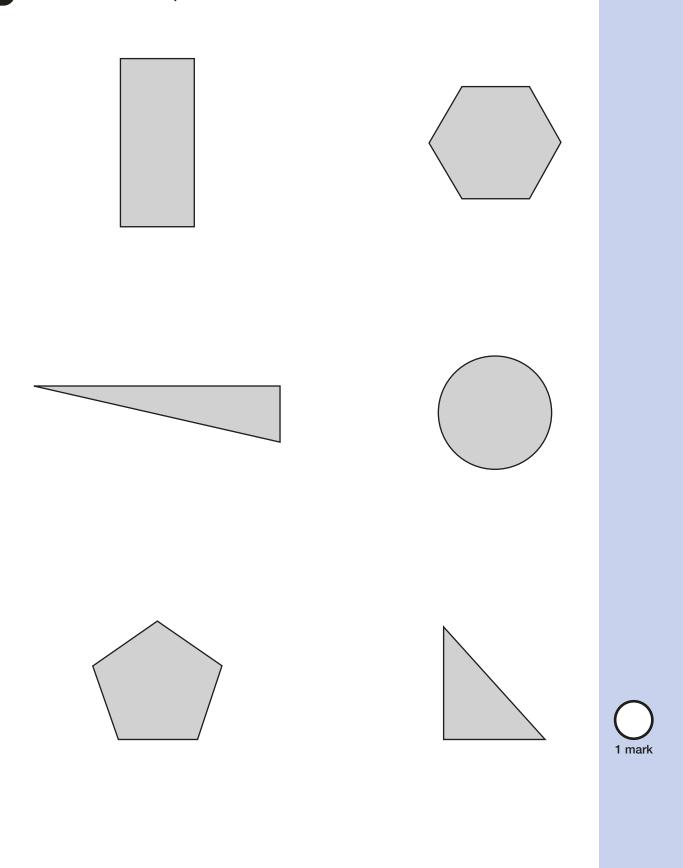
Complete the block chart.



7

1 mark

8 Tick the **two** shapes with the same number of sides.



9 Each object looks like a **cuboid**, **cone** or **cylinder**.

Complete the table.

One is done for you.

Object	Cuboid	Cone	Cylinder
BAKED BEANS			~
PLATING CARDS			
WHILATE O THEES			



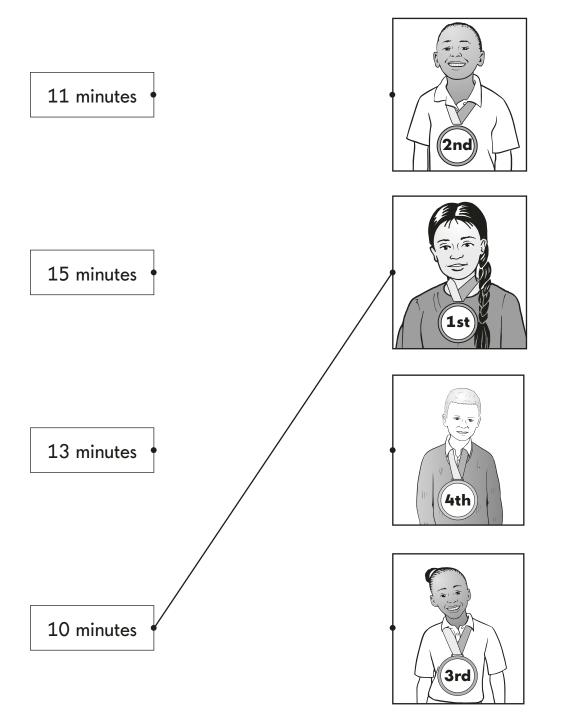
Four children run a race.

10

The medals show their finishing position.

Match each time to the child's position.

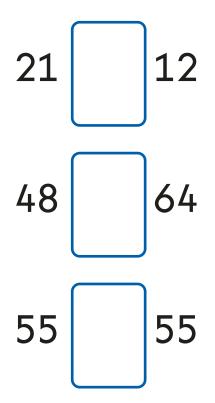
One is done for you.



1 mark

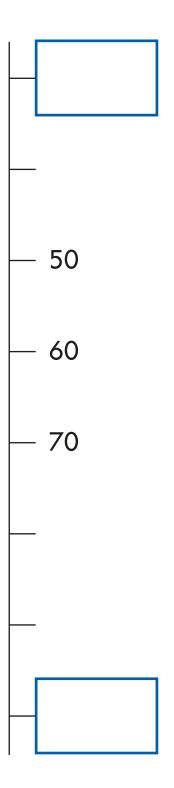
Look at these signs.

Write the correct sign in each box.

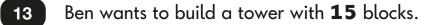


1 mark

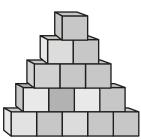
12 Write the correct number in each box on the number line.







He only has **9** blocks.



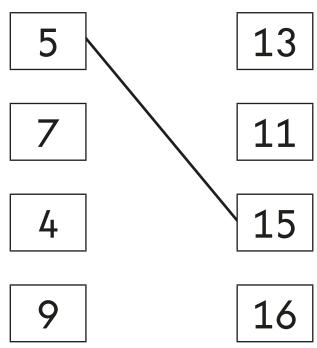
How many **more** blocks does Ben need?





Match **all** the pairs of numbers that add to **20** 14

One is done for you.



1 mark

Ben draws a tally chart of the birds he sees in his garden.

Complete Ben's tally chart.

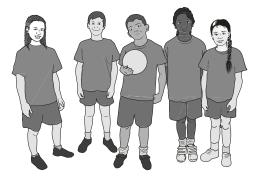
Bird	Tally of birds	Number of birds
robin]]]	3
blue tit	HH I	
sparrow		10

1 mark

16

6 teams play football.

Each team has **5** children.



How many children play football **altogether**?





tens	ones	

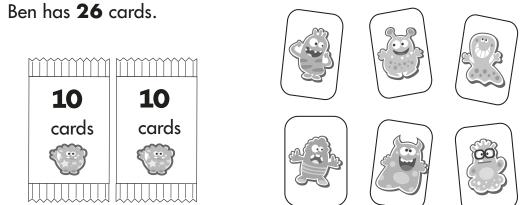
Kemi uses tens and ones to show **56**

She adds 2 more tens.

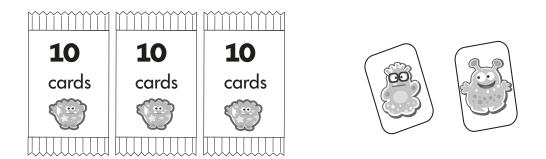
17

What is her **new** number?

O 1 mark



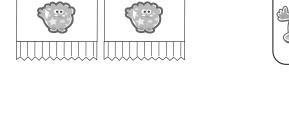
Sita has **32** cards.



How many cards do Ben and Sita have **altogether**?







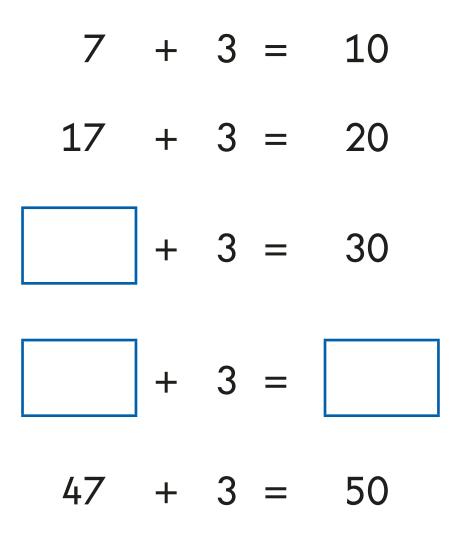
19



Write one sign in each box to make the number sentences correct.

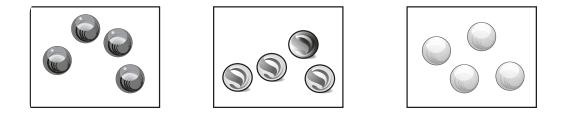
One is done for you.

2 marks





These marbles are sorted into groups.



Circle **two** calculations that show the total number of marbles.



Here is a calculation.

$$\frac{1}{4}$$
 of 8 = 2

Now complete the calculations below.

$$\frac{2}{4}$$
 of 8 =

$$\frac{3}{4}$$
 of 8 =

O 1 mark

This is Ben's money.



This is Sita's money.



How much **more** money does Ben have than Sita?





Sourced from SATs-Papers.co.uk

Sam has some toy cars.

24

The picture shows $\frac{1}{2}$ of his cars.



How many toy cars does Sam have **altogether**?

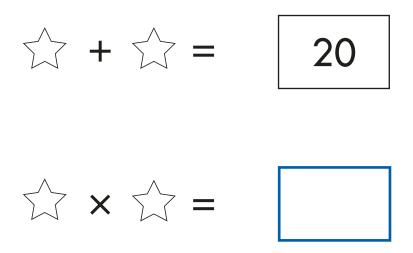
cars

O 1 mark

25 Look at the two calculations.

Each is worth the **same** number.

Write the answer to the second calculation.





He pays with **four £5** notes.







Sank of Singland

3:17

£5

Fiv

How much change does Sam get?



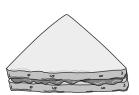
27 Amy makes **24** sandwiches for a party.

9 children come to the party.

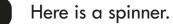
Each child eats **2** sandwiches.

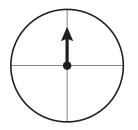
How many sandwiches are **left**?





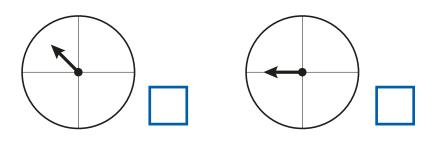
2 marks

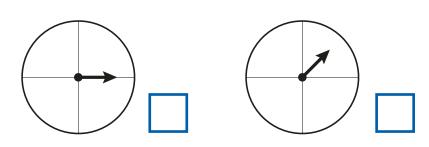




The arrow moves a $\frac{1}{4}$ turn **anti-clockwise**.

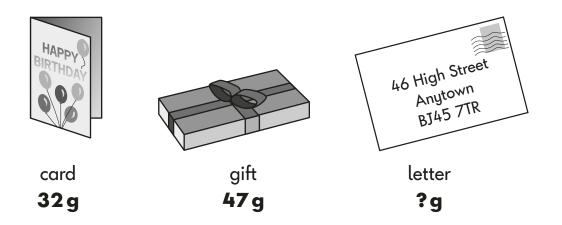
Tick the new position of the arrow.





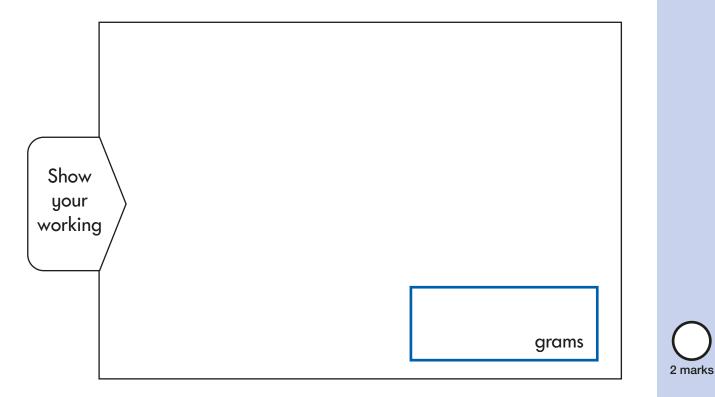


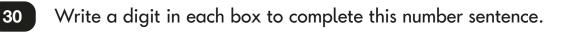
Kemi sends a card, a gift and a letter.



Altogether the card, gift and letter weigh **100** grams.

How much does the **letter** weigh?

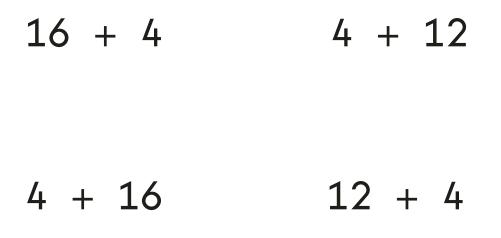




Sita solved this calculation.

16 - 4 = 12

Circle **all** of the calculations that show how Sita could check her answer.





1 mark

Sourced from SATs-Papers.co.uk

Here is part of a number pattern.

The numbers increase by **five** each time.

2 7 12 17 22

Write the next **even** number in the pattern.



1 mark

End of test

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2023 key stage 1 mathematics Paper 2: reasoning Print version product code: STA/23/8708/p ISBN: 978-1-78957-622-1 Electronic PDF version product code: STA/23/8708/e ISBN: 978-1-78957-642-9

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