2023 national curriculum tests



Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks



Sam

Sita

Practice question









2



O 1 mark





1 mark







6 Match the words to the correct numerals.

One is done for you.



O 1 mark

1 mark

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

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



Complete the block chart.



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			~
PLANIECONDS			
WINTER S OF THE S OF THE S			



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10 Four children run a race.

The medals show their finishing position.

Match each time to the child's position.

One is done for you.



O 1 mark Look at these signs.

Write the correct sign in each box.



11

1 mark

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







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13 Ben wants to build a tower with **15** blocks.

He only has **9** blocks.



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





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

One is done for you.



1 mark

15 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	HHT 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.

What is her **new** number?

1 mark





Sita has **32** cards.



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







Look at these signs:

19



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

One is done for you.

2 marks

Write the missing numbers to continue the number pattern.



1 mark



These marbles are sorted into groups.



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





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

Now complete the calculations below.

$$\frac{2}{4}$$
 of 8 = ______
 $\frac{3}{4}$ of 8 = ______

0 1 mark

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This is Sita's money.



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







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Sam buys a book for **£17**

He pays with **four £5** notes.





How much change does Sam get?









2 marks

- 27 Amy makes **24** sandwiches for a party.
 - **9** children come to the party.

Each child eats **2** sandwiches.

How many sandwiches are **left**?





Here is a spinner.

28



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?



1 mark



Sita solved this calculation.

16 - 4 = 12

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



O 1 mark

1 mark

32 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.



End of test

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