

2023 national curriculum tests

Key stage 1

MATHEMATICS

Modified large print

Paper 2: reasoning

First name

Middle name

Last name

Note for marking:

This paper should be marked using the standard mark schemes for KS1 mathematics: Paper 2. Please also refer to the Key stage 1 mathematics amendments to mark schemes – MLP document for questions that have been modified or replaced.

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In this booklet you will read the names of six children.

They are called:

Ajay

Amy

Ben

Kemi

Sam

Sita

Practice question

Sita

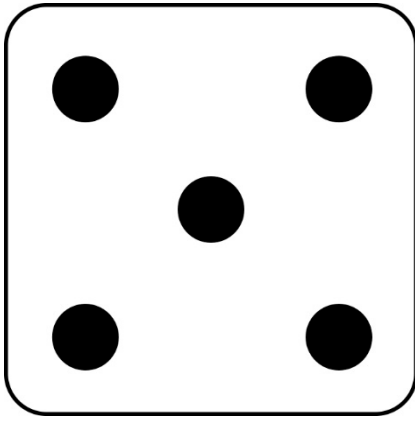
apple apple apple

Amy

apple apple

_____ apples

1.



5 3 2 7

2. **6 2 8 3**

3. **5p** **1p** **20p**

£1 **10p** **50p**

4. **banana banana banana banana**

pear pear pear

_____ **oranges**

5.

6. Write the number in figures that is the same as the words below.

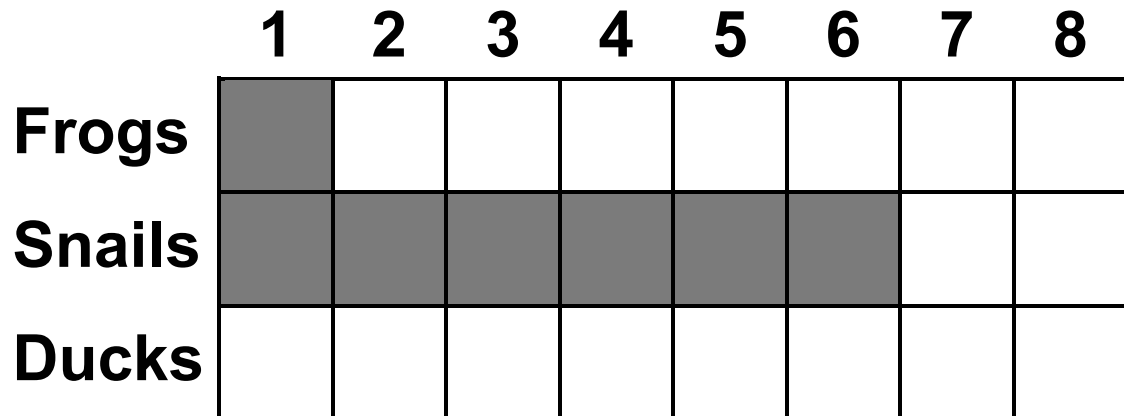
a) sixteen

b) forty-three

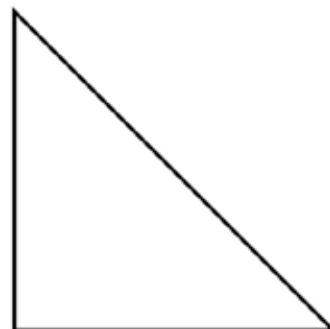
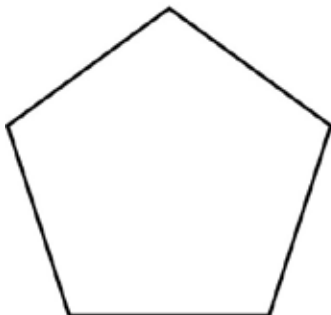
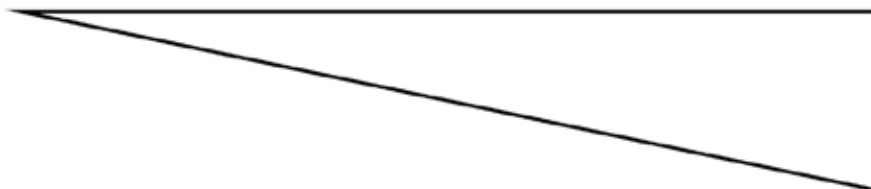
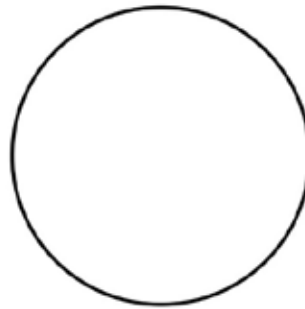
7. This block diagram shows how many animals are in a pond.

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

Complete the block chart below by marking squares.



8. Look at the five shapes below.
Tick or mark the **two** shapes with the same number of sides.



9. You have four shapes for this question.

They are labelled **P Q R** and **S**.

Each shape is a **cuboid**, **cone** or **cylinder**.

Write all the letters of the shapes that are

a) cuboid _____

b) cone _____

c) cylinder _____

10. Look at the four times below.

11 minutes

15 minutes

13 minutes

10 minutes

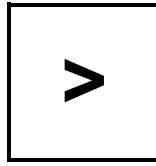
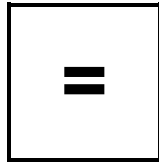
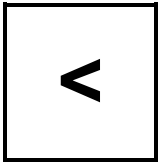
Four children ran a race.

The fastest time was 10 minutes.

What was the slowest time?

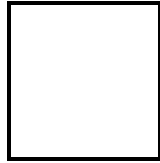
_____ minutes

11. Look at the three signs below.



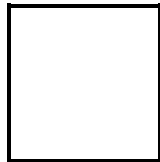
Write the correct sign in each box.

21



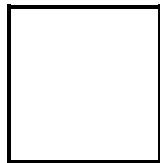
12

48



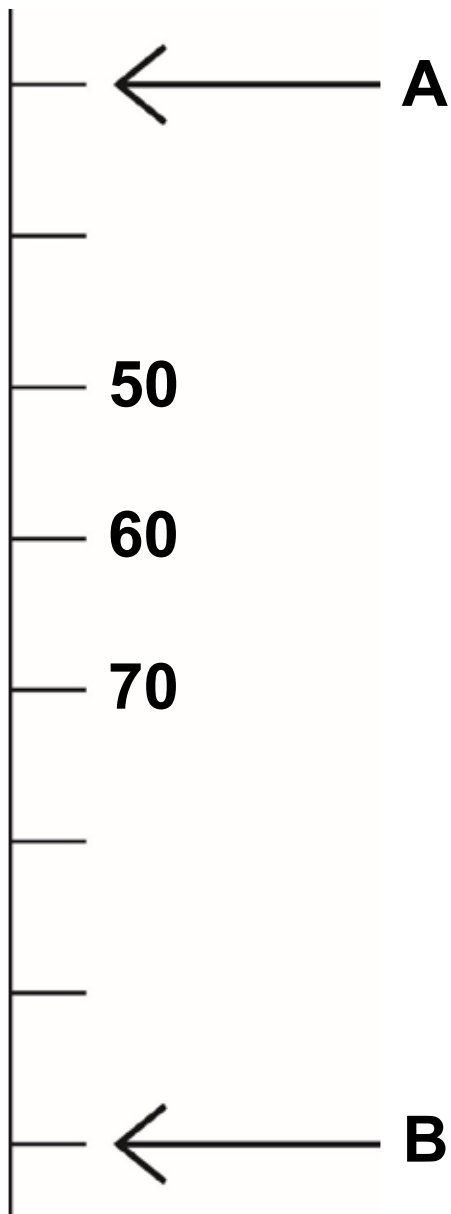
64

55



55

12. Look at the number line below.



Write the numbers shown by the arrows **A** and **B**.

A is _____

B is _____

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

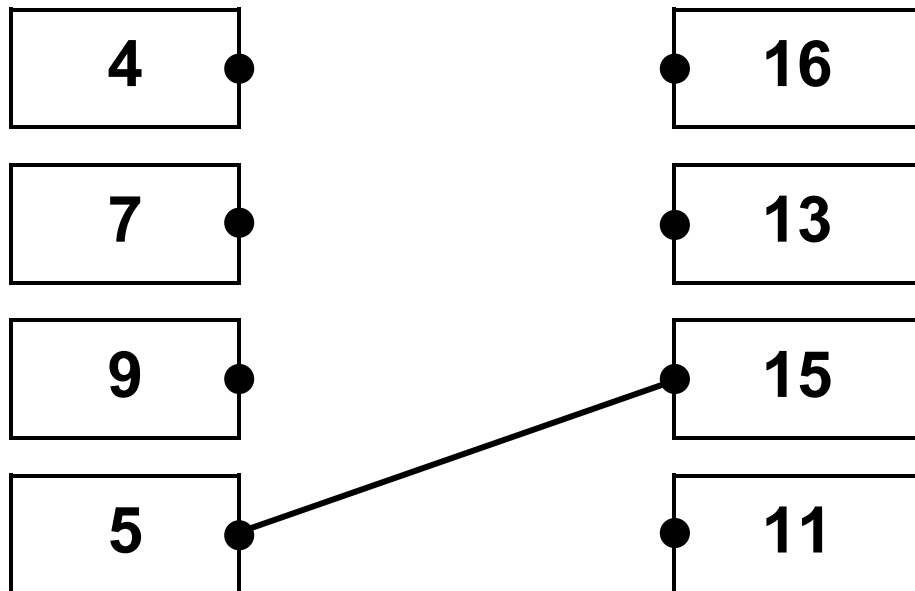
He only has **9** blocks.

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

_____ blocks

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

One is done for you.



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

His chart is shown below.

Bird	Tally of birds	Number of birds
robin	III	3
blue tit	II	
sparrow		4

Complete Ben's tally chart.

16. **6** teams play football.

Each team has **5** children.

How many children play football **altogether**?

_____ children

17. Kemi makes the number 56

She uses five tens and six ones.

She adds 2 more tens.

What is her new number?

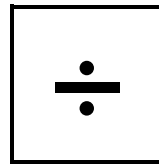
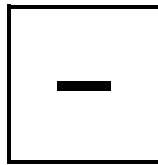
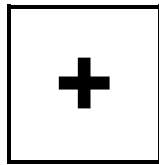
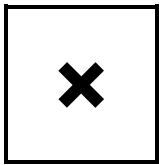
18. Ben has **26** cards.

Sita has **32** cards.

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

_____ cards

19. Look at the four signs below:



Write the correct sign in each box.

One is done for you.

$$5 \quad \boxed{\times} \quad 4 = 20$$

$$8 \quad \boxed{} \quad 2 = 16$$

$$30 \quad \boxed{} \quad 10 = 3$$

$$7 \quad \boxed{} \quad 6 = 13$$

20. Write the missing numbers in the boxes to continue the number pattern below.

$$7 + 3 = 10$$

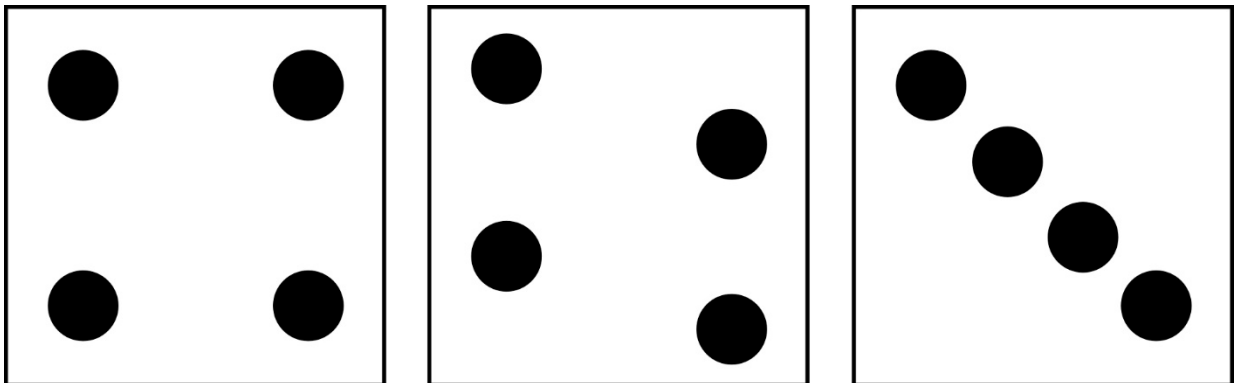
$$17 + 3 = 20$$

$$\boxed{} + 3 = 30$$

$$37 + 3 = \boxed{}$$

$$47 + 3 = 50$$

21. The diagram below shows three groups of dots.



Look at the four calculations below.

$$3 \times 3$$

$$3 \times 4$$

$$4 + 4 + 4$$

$$3 + 3 + 3$$

Tick or mark the **two** calculations that show the total number of dots.

22. Here is a calculation.

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

Now complete the calculations below.

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

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

23. This is Ben's money.

50p 20p 5p

This is Sita's money.

50p 2p 2p 10p 1p

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

_____ p

24. Sam is thinking of a number.

$\frac{1}{2}$ of the number is 5

What is Sam's number?

25. Look at the two calculations below.

Each  is worth the **same** number.

$$\triangle + \triangle = \boxed{20}$$

$$\triangle \times \triangle = \boxed{}$$

Write the answer to the second calculation.

26. Sam buys a book for **£17**

He pays with **four £5** notes.

£5 £5 £5 £5

How much change does Sam get?

£ _____

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

9 children come to the party.

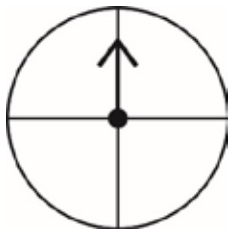
Each child eats **2** sandwiches.

How many sandwiches are **left**?

Show your working.

_____ sandwiches

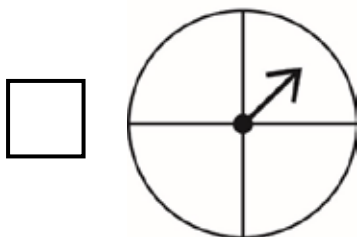
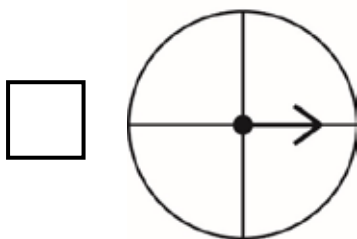
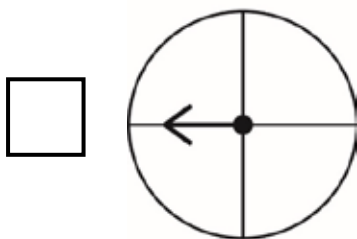
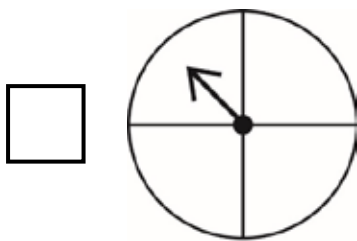
28. Here is a spinner.



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

Look at the four spinners below.

Tick or mark the new position of the arrow.



29. Kemi sends a card, a gift and a letter.

The card weighs **32 g**

The gift weighs **47 g**

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

How much does the **letter** weigh?

Show your working.

_____ grams

30. Write a digit in each box to complete this number sentence.

$$\boxed{3} \boxed{} + \boxed{} \boxed{2} = 50$$

31. Sita solved this calculation.

$$16 - 4 = 12$$

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

$$16 + 4$$

$$4 + 12$$

$$4 + 16$$

$$12 + 4$$

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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Total marks	
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Paper 2: reasoning

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