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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.

STA/23/8708/MLp

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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

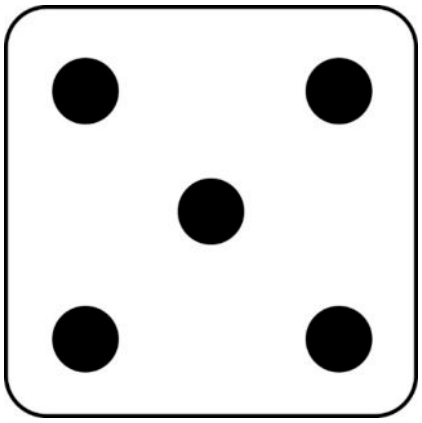
apple apple apple

Amy

apple apple

_____ apples

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1. 

5 3 2 7

_____

2. **6 2 8 3**

_____

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

£1 **10p** **50p**

_____

4. **banana banana banana banana**

pear pear pear

_____ **oranges**

5.

_____

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

a) sixteen

_____

b) forty-three

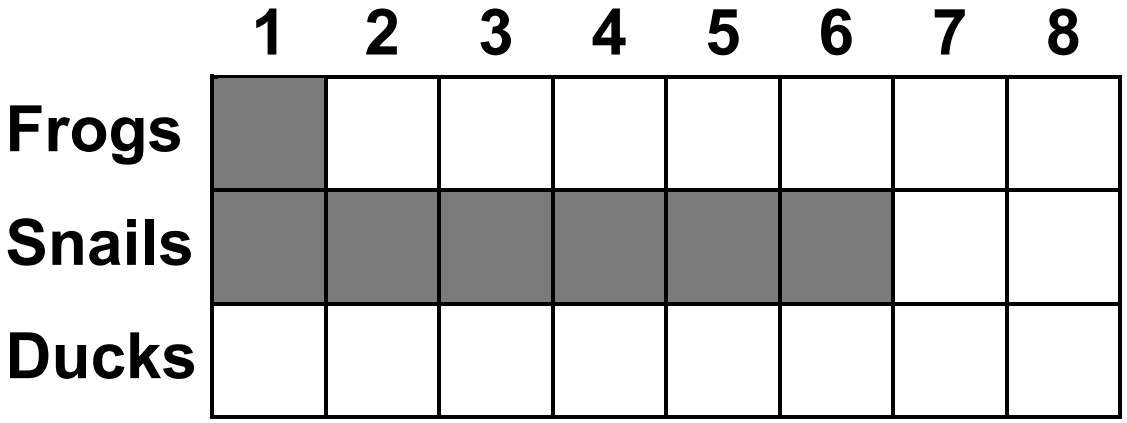
_____

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

There are 4 ducks in the pond.

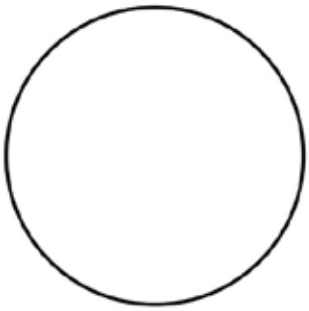
Complete the block chart below by marking squares.

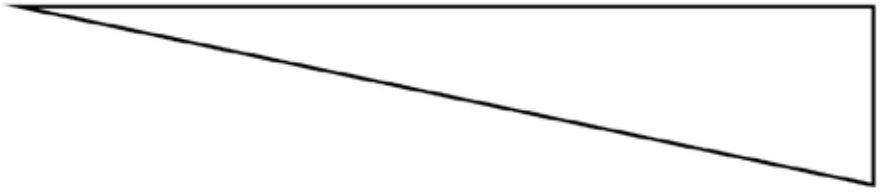


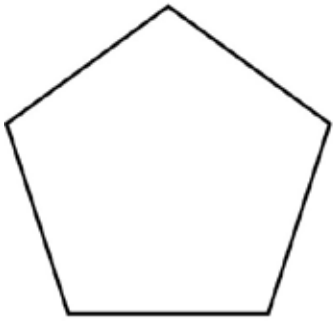
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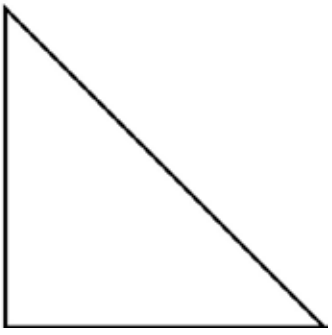
8. Look at the five shapes below.
Tick or mark the two shapes with the same number of sides.











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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 _____

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10. Look at the four times below.

11 minutes

15 minutes

13 minutes

10 minutes

Four children ran a race.

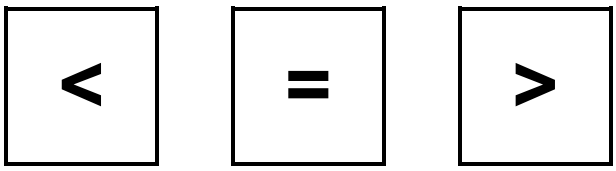
The fastest time was 10 minutes.

What was the slowest time?

_____ minutes

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11. Look at the three signs below.



Write the correct sign in each box.

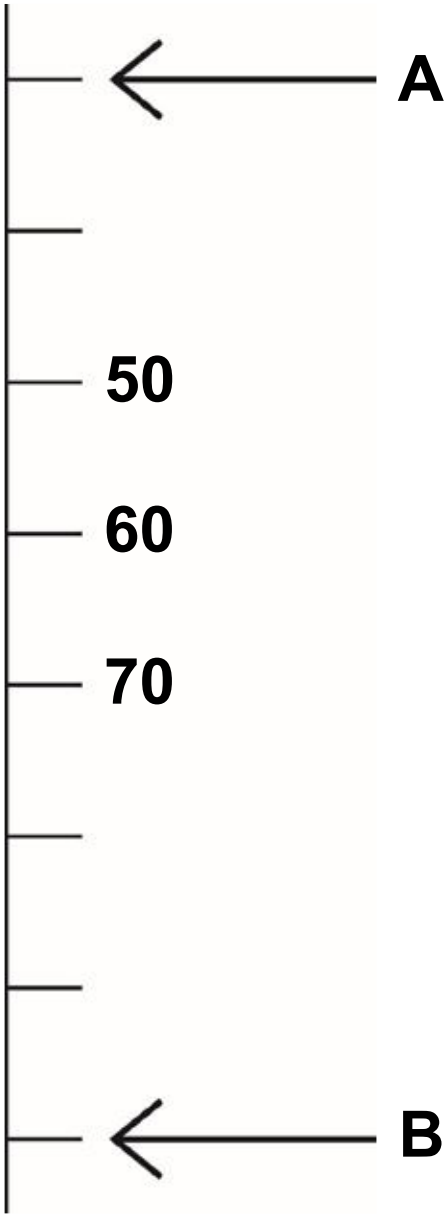
21 ☐ **12**

48 ☐ **64**

55 ☐ **55**

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12. Look at the number line below.



Write the numbers shown by the arrows A and B.

A is _____

B is _____

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

He only has 9 blocks.

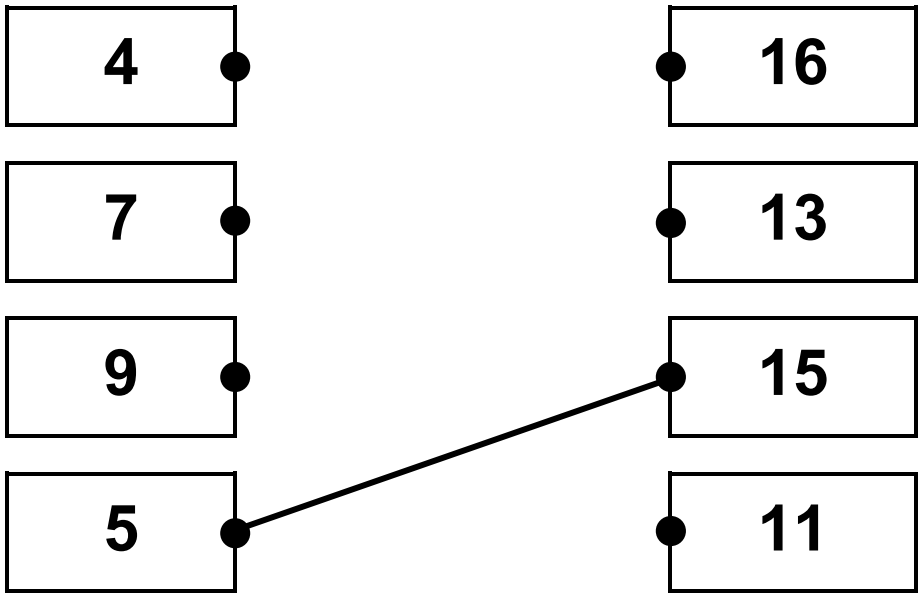
How many more blocks does Ben need?

_____ **blocks**

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

One is done for you.



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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.

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16. **6 teams play football.**

Each team has 5 children.

How many children play football altogether?

_____ children

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17. Kemi makes the number 56

She uses five tens and six ones.

She adds 2 more tens.

What is her new number?

_____

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18. **Ben has 26 cards.**

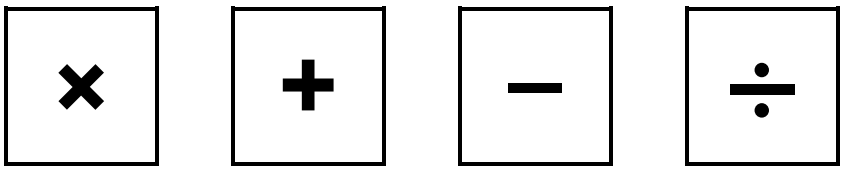
Sita has 32 cards.

How many cards do Ben and Sita have altogether?

_____ **cards**

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19. Look at the four signs below:



Write the correct sign in each box.

One is done for you.

5 × **4 = 20**

8 ☐ **2 = 16**

30 ☐ **10 = 3**

7 ☐ **6 = 13**

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

$7 + 3 = 10$

$17 + 3 = 20$

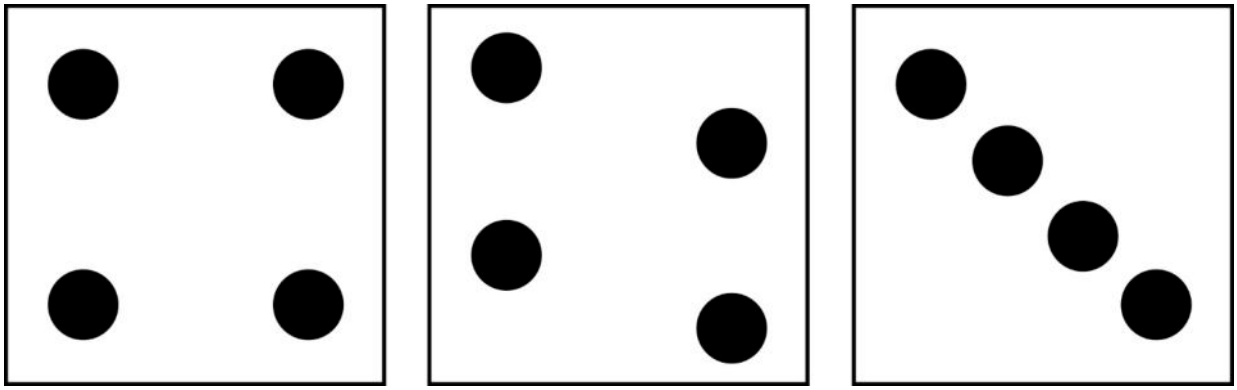
$\square + 3 = 30$

$37 + 3 = \square$

$47 + 3 = 50$

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21. The diagram below shows three groups of dots.



Look at the four calculations below.

3 × 3

3 × 4

4 + 4 + 4

3 + 3 + 3

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

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22. 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 = ☐

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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

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24. Sam is thinking of a number.

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

What is Sam's number?

_____

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25. Look at the two calculations below.

Each △ is worth the same number.

△ + △ = 20

△ × △ = ☐

Write the answer to the second calculation.

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26. Sam buys a book for £17

He pays with four £5 notes.

£5 £5 £5 £5

How much change does Sam get?

£ _____

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27. Amy makes 24 sandwiches for a party.

9 children come to the party.

Each child eats 2 sandwiches.

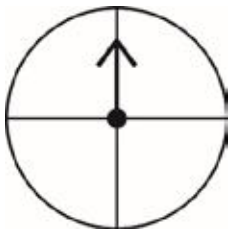
How many sandwiches are left?

Show your working.

_____ **sandwiches**

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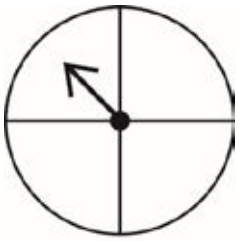
28. Here is a spinner.

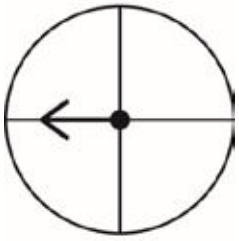


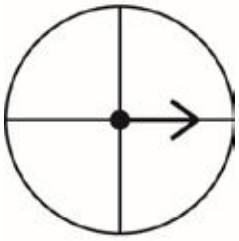
The arrow moves a $\frac{1}{4}$ turn anti-clockwise.

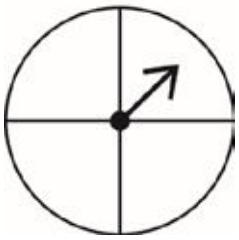
Look at the four spinners below.

Tick or mark the new position of the arrow.

☐ 

☐ 

☐ 

☐ 

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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.

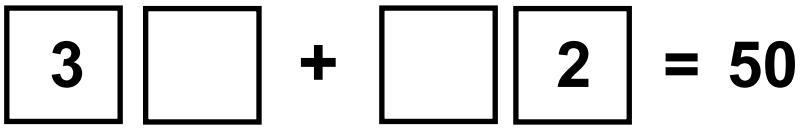
How much does the letter weigh?

Show your working.

_____ grams

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



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

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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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