

2022 national curriculum tests

Key stage 1

Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks	
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Ajay



Amy



Ben



Kemi

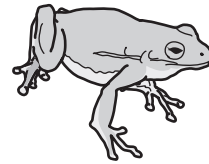
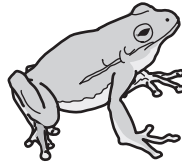
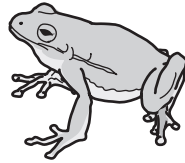
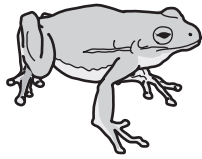
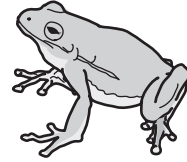
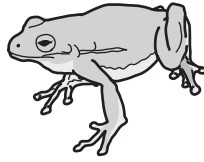
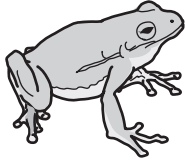


Sam



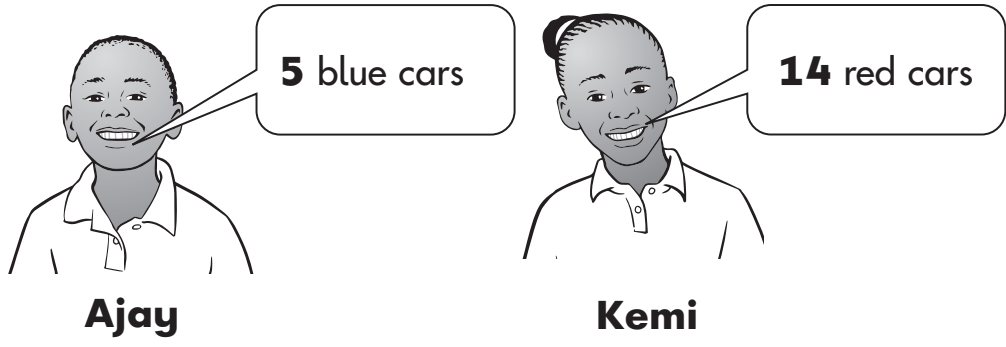
Sita

Practice question



frogs

1



cars

1 mark

2

two-digit number

less than 20

even number



1 mark

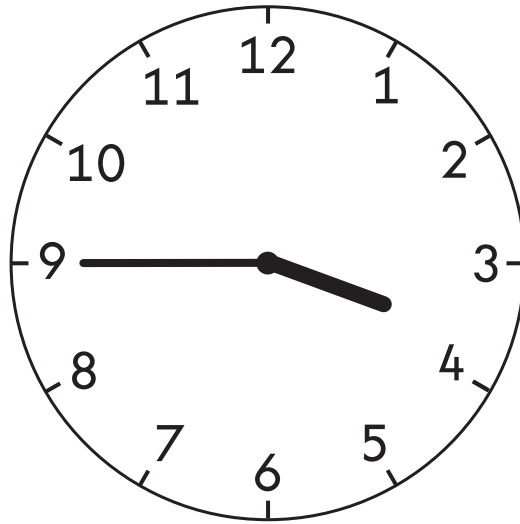
3

60



1 mark

4



Tick **one**.

quarter to 9

quarter to 4

quarter past 9

quarter past 4



1 mark

5

12

sweets

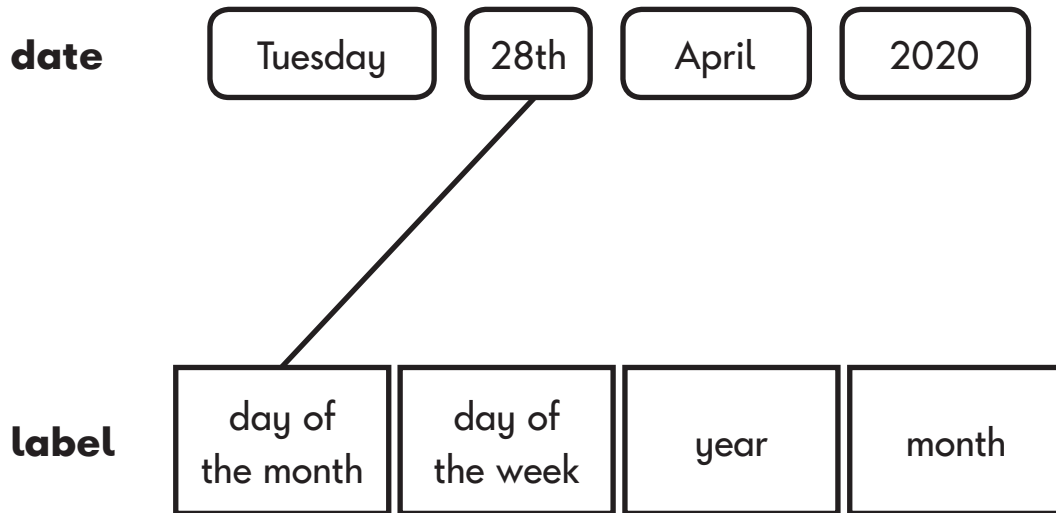


1 mark

6

Match each label to the correct part of the date.

One is done for you.



1 mark

7 Put these numbers in order from smallest to largest.

One is done for you.

76

84

27

45

~~18~~

18

smallest

largest

1 mark

8

Kemi has **25** red beads and **6** green beads.

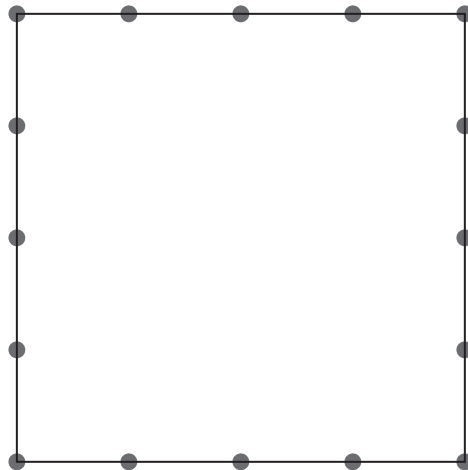
How many beads does Kemi have **altogether**?



1 mark

9

Draw **two lines** to divide the square into **quarters**.



1 mark

10

Ben has **20** stickers.

Sam has **30** stickers.

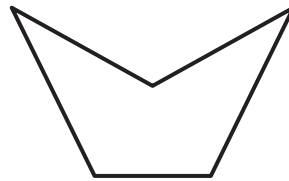
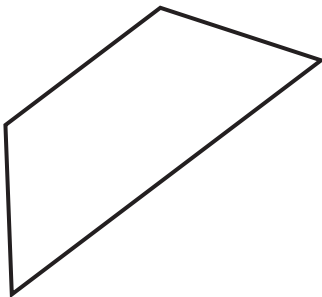
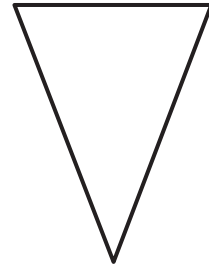
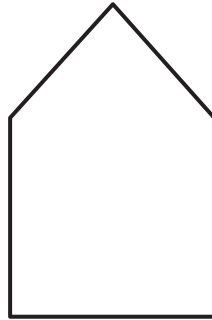
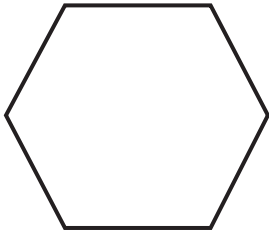
Ajay has **50** stickers.

How many stickers do they have **altogether**?



1 mark

11 Tick the **two** shapes that have the same number of sides.



1 mark

12

This number sentence equals 18

$$\boxed{1} + \boxed{1} \boxed{7} = \boxed{1} \boxed{8}$$

Now write a **different** number sentence that equals 18Write **one digit** in each empty box.

$$\boxed{} + \boxed{1} \boxed{} = \boxed{1} \boxed{8}$$

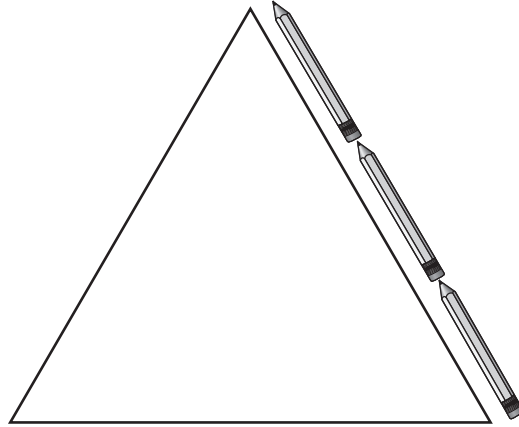


1 mark

13

This triangle has three sides of **equal length**.

Three pencils fit along one side of the triangle.



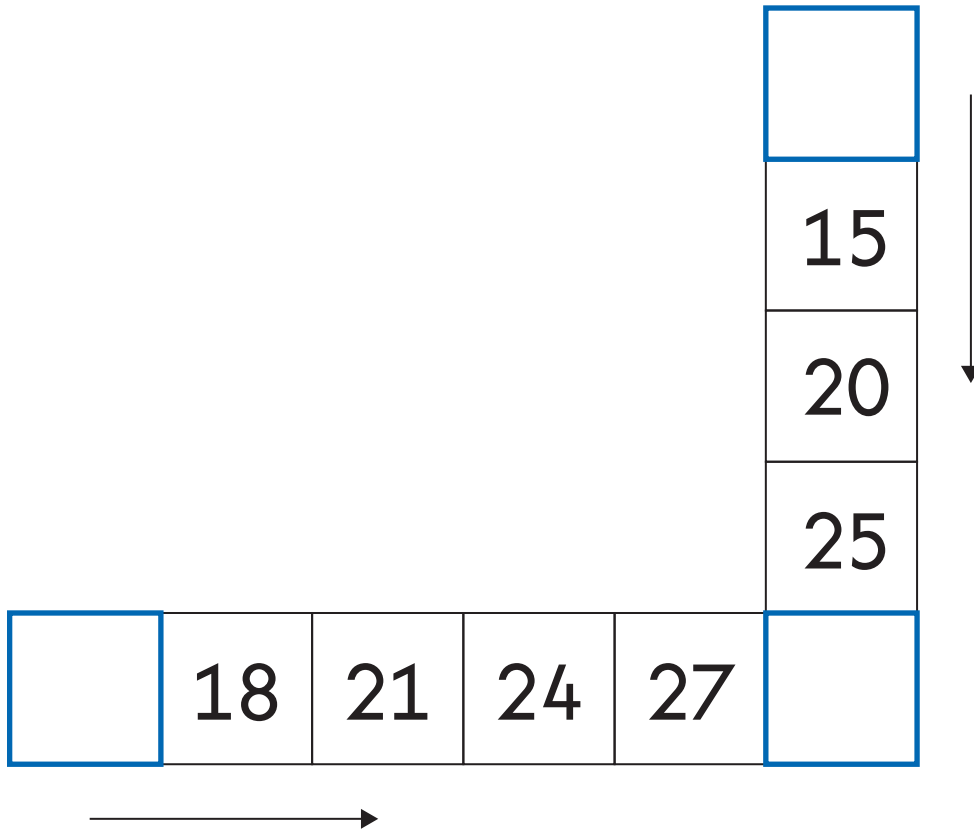
How many pencils fit around **all three sides** of the triangle?

1 mark

14 Here are two number patterns.

There are **three** missing numbers.

Write them in the empty boxes.







2 marks

15

Draw a line to match each measurement to the correct unit.

One is done for you.

measurement	unit
 the length of a pencil	kg
 the mass of a bag of potatoes	°C
 the capacity of a cup	cm
 the temperature outside	ml

A line is drawn from the pencil measurement box to the cm unit box.



1 mark

16

Complete the table to show how many tens and ones are in each number.

One is done for you.

Number	Tens	Ones
87	8	7
23		
5		



1 mark

17

Look at these numbers.

36

42

6

Use these numbers to complete the number sentences below.

Use all three numbers each time.

$$\square + \square = \square$$

$$\square - \square = \square$$



1 mark

18

Ben has **40** cards.

He shares them equally between
4 party bags.



How many cards does he put in each bag?

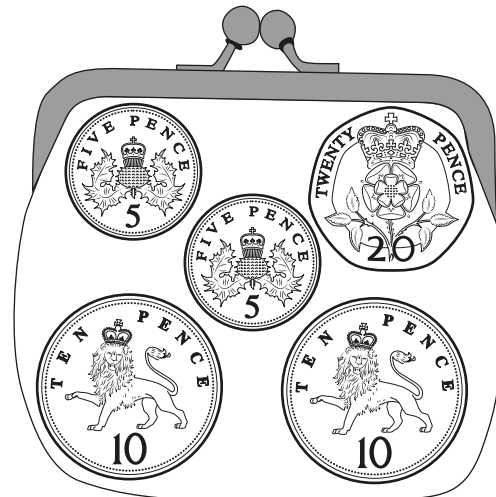
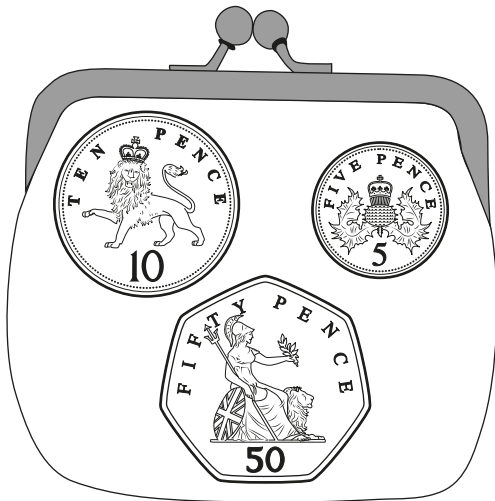
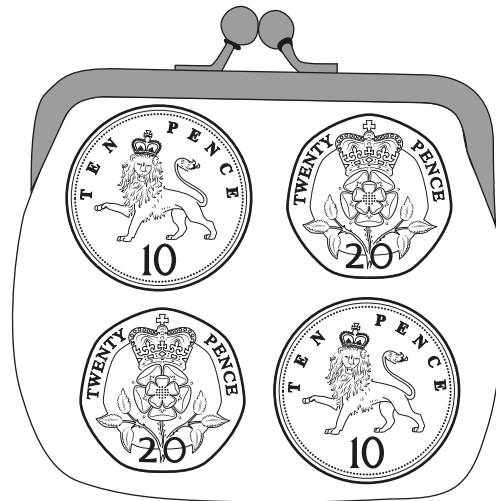
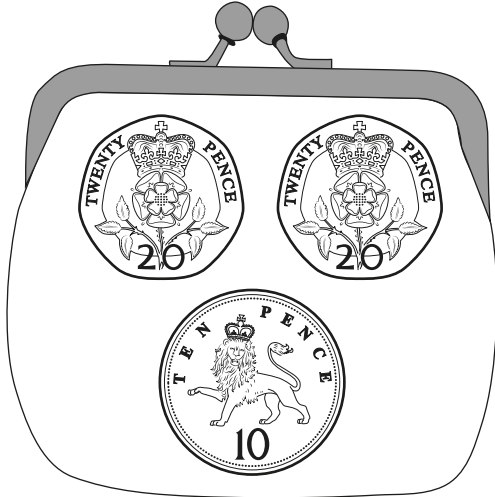


1 mark

19

Two of these purses have the **same amount** of money.

Tick them.



1 mark

20

Circle the calculation with the largest answer.

$5 + 2$

$10 - 3$

$9 - 1$

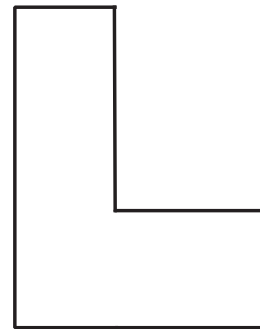
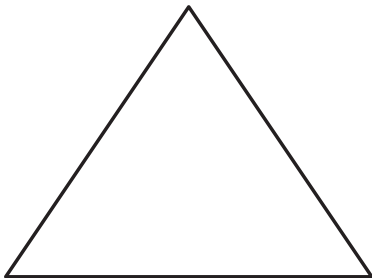
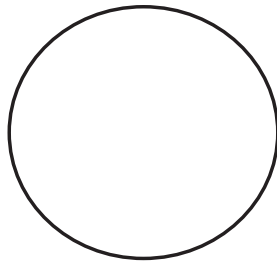
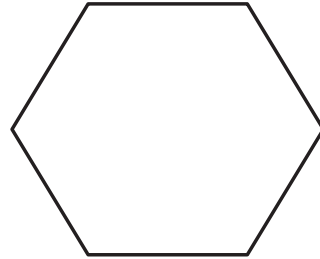
$4 + 1$



1 mark

21

Draw a cross on the shape that does **not** have a line of symmetry.



1 mark

22



A wall has **5** bricks in each row.

How many bricks are there in **6** rows?

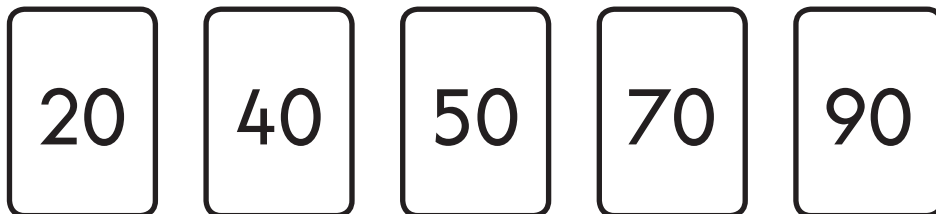
bricks



1 mark

23

Look at these number cards.



Choose **three** of the number cards to make this subtraction correct.

- =



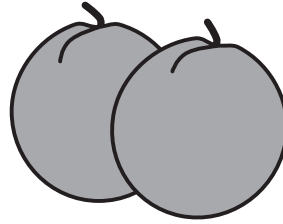
1 mark

24

8 children are eating plums.

Each child eats 2 plums.

How many plums do they eat **altogether**?



1 mark

25

Sam puts 18 cards in rows.

He puts 3 cards in each row.

How many **rows** of cards are there?



1 mark

26

There are **43** people on a bus.

15 people get off.

8 people get on.



How many people are on the bus **now**?

Show
your
working

people



2 marks

27

Complete the number sentences.

$$\boxed{7} + 7 = 14$$

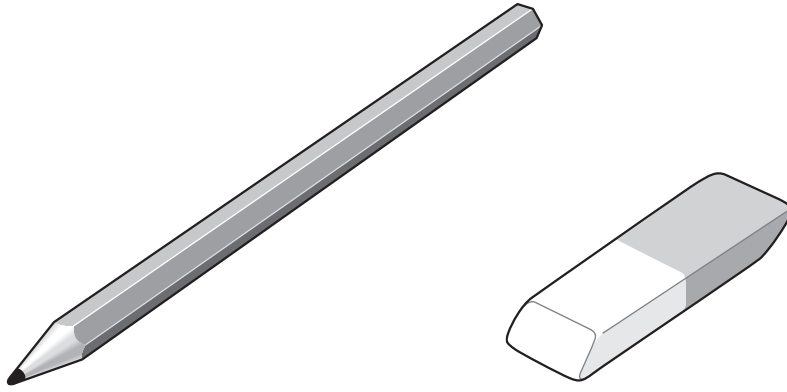
$$\boxed{} + 7 = 24$$

$$\boxed{27} + 7 = \boxed{}$$

$$\boxed{} + 7 = 44$$



1 mark



pencil
15p

rubber
25p

Kemi has **£1**

She buys a **pencil** and a **rubber**.

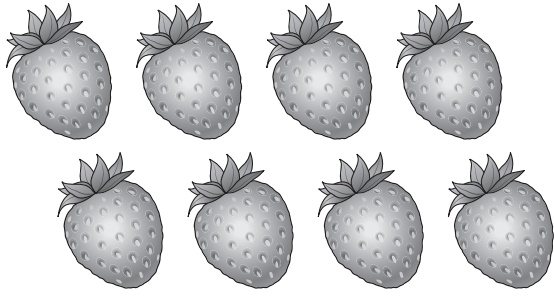
How much **change** does Kemi get from **£1**?

Show
your
working

p



2 marks



Sita has **8** strawberries.

She eats $\frac{3}{4}$ of them.

How many does she eat?

strawberries



1 mark

30

This table shows the shoe sizes of all the children in a class.

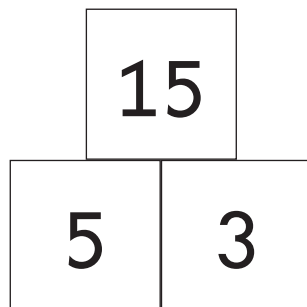
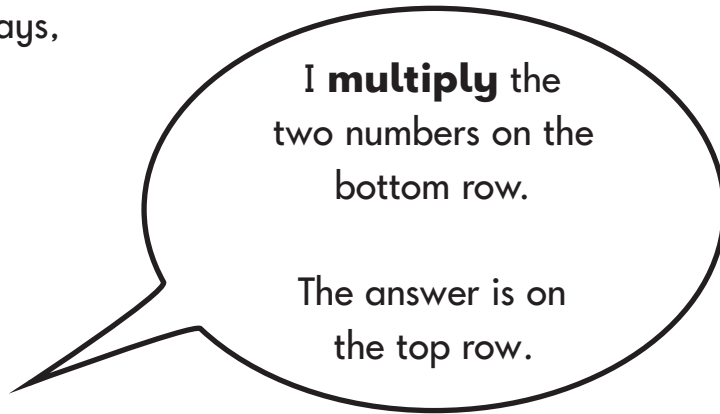
Shoe size	Number of children
9	7
10	8
11	12
12	2

How many children have a shoe size of **10 or smaller**?

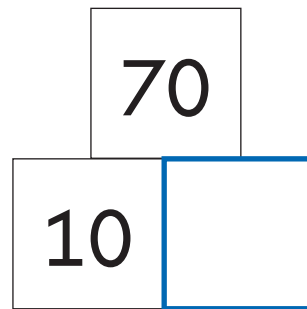
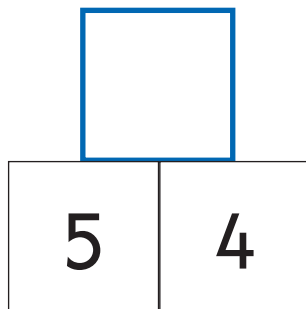


1 mark

31 Kemi says,



Write the **two** missing numbers below.



○
2 marks

End of test

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2022 key stage 1 mathematics

Paper 2: reasoning

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