

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

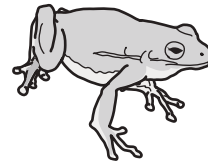
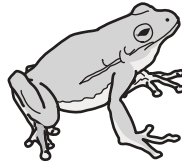
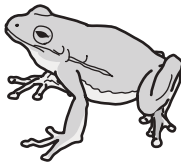
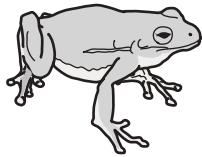
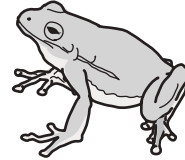
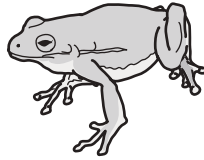
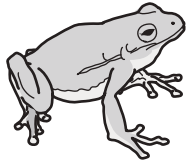


Sam



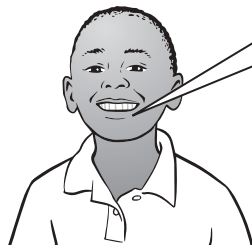
Sita

Practice question



frogs

1



Ajay

5 blue cars



Kemi

14 red cars

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cars



1 mark

2

two-digit number

less than 20

even number



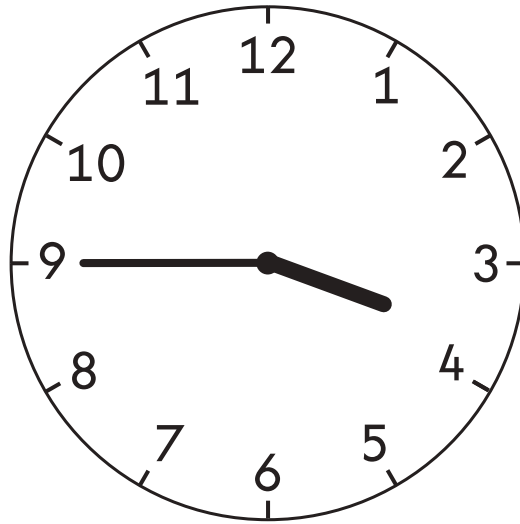
1 mark

3

60



1 mark



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.

date

Tuesday

28th

April

2020

label

day of
the month

day of
the week

year

month



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.

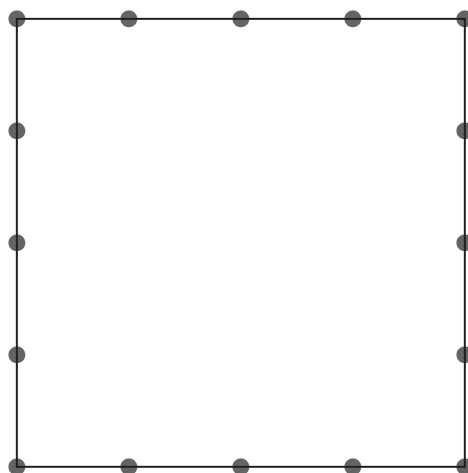
How many beads does Kemi have **altogether**?

beads



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**?

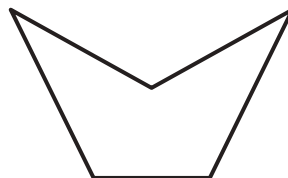
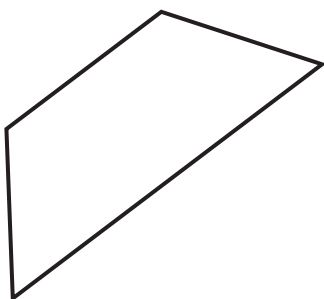
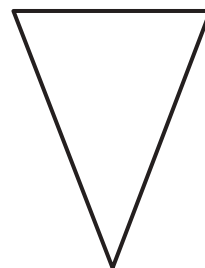
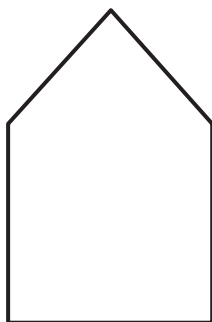
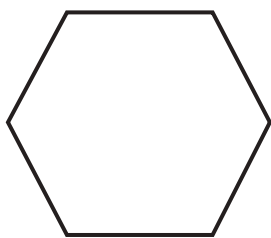
stickers



1 mark

11

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



1 mark

12

This number sentence equals 18

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

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

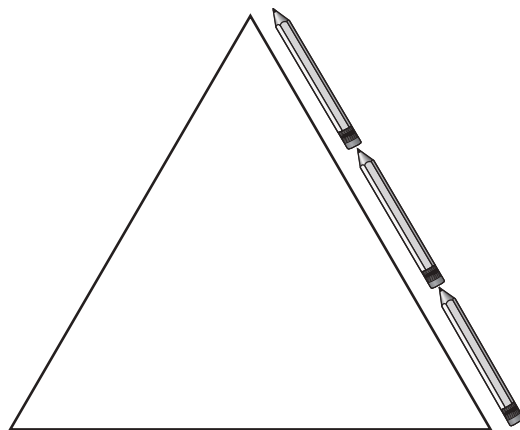
$$\boxed{} + \boxed{1 \mid } = \boxed{1 \mid 8}$$



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?

pencils



1 mark

14

There are **three** missing numbers.

Write them in the empty boxes.

15	20	25	18	21
24	27	16	19	22
28	31	34	23	26
35	38	41	30	33
42	45	48	37	40

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 connects the measurement 'the length of a pencil' to the unit 'cm'.



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
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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?



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cards

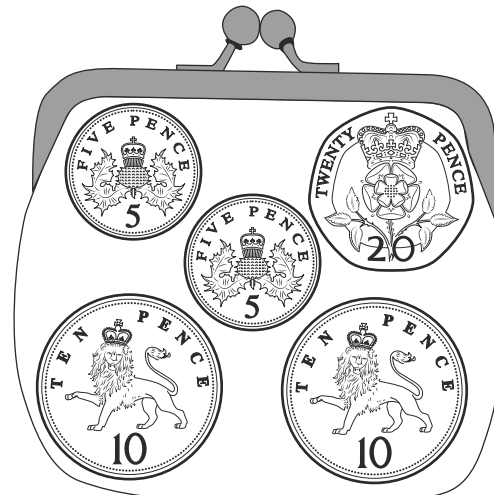
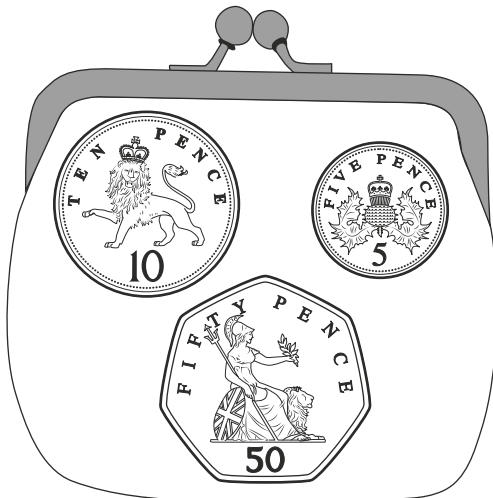
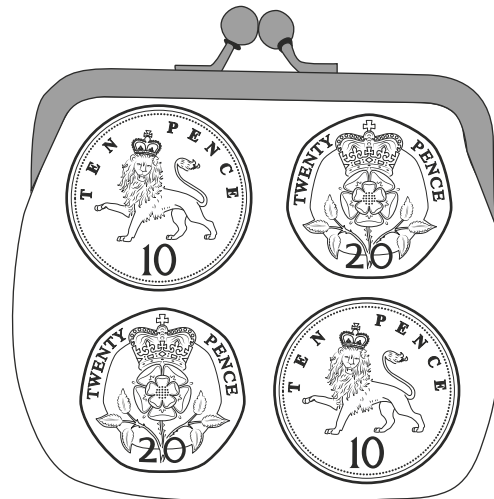
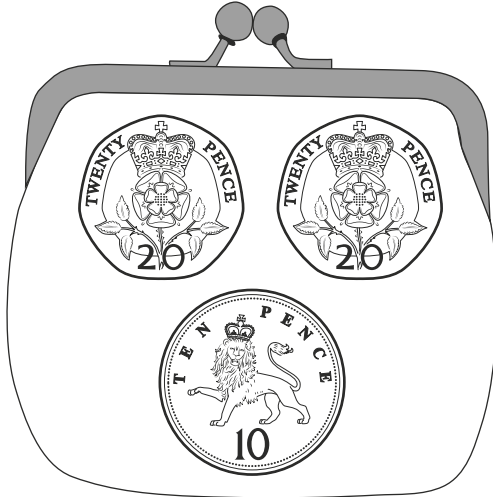


1 mark

19

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

Tick them.



1 mark

20

Circle the calculation with the largest answer.

$5 + 2$

$10 - 3$

$9 - 1$

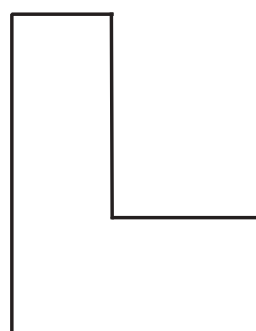
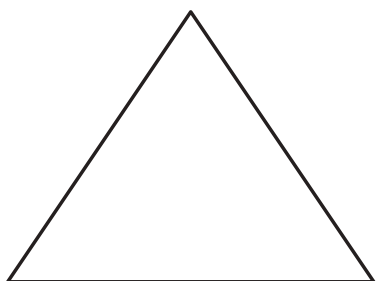
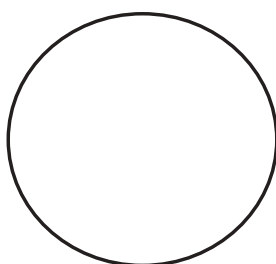
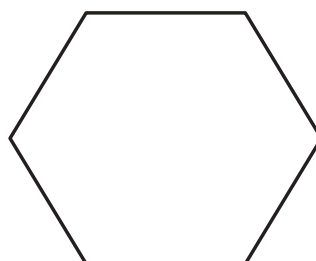
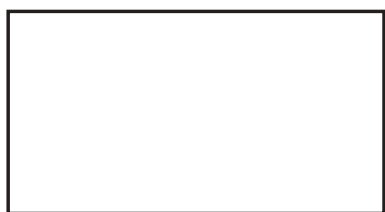
$4 + 1$



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?

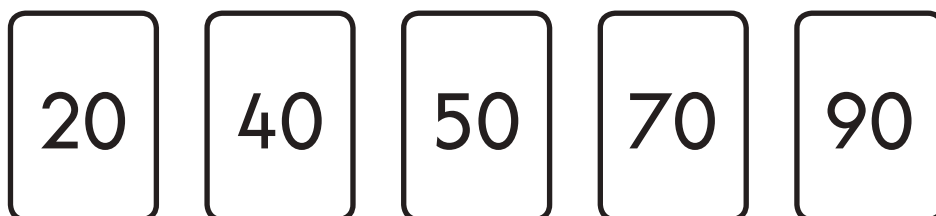
bricks



1 mark

23

Look at these number cards.



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

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=

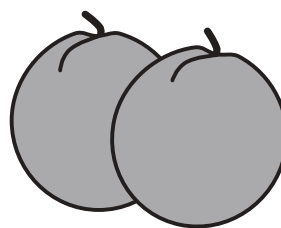


1 mark

24 **8** children are eating plums.

Each child eats **2** plums.

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



plums



1 mark

25 Sam puts **18** cards in rows.

He puts **3** cards in each row.

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

rows



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.

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

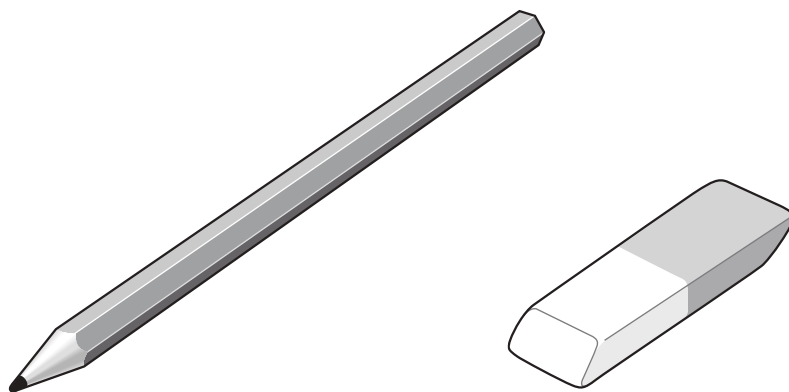
$$\boxed{} + 7 = 24$$

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

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



1 mark



pencil
15p

rubber
25p

Kemi has **£1**

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

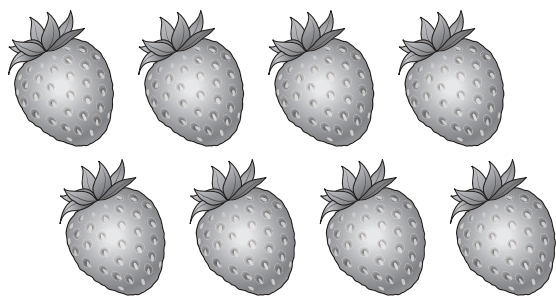
How much **change** does Kemi get from **£1**?

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**?

children

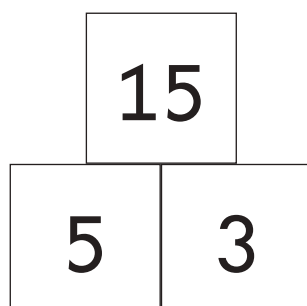


1 mark

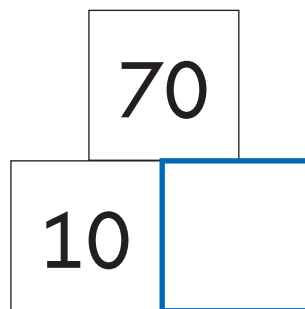
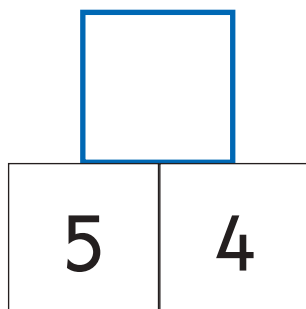
31 Kemi says,

I **multiply** the
two numbers on the
bottom row.

The answer is on
the top row.



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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