2022 national curriculum tests



Mathematics

Paper 2: reasoning

| First name | |
|-------------|--|
| Middle name | |
| Last name | |

Total marks



Ajay



Amy



Ben



Kemi





Sita

Practice question









two-digit number

less than 20

even number



1 mark

3

















1 mark

Match each label to the correct part of the date.

One is done for you.



1 mark

Put these numbers in order from smallest to largest.

One is done for you.



Kemi has **25** red beads and **6** green beads. 8

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





Draw **two lines** to divide the square into **quarters**. 9





10 Ben has **20** stickers.

Sam has **30** stickers.

Ajay has **50** stickers.

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





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



1 mark

12



Now write a **different** number sentence that equals 18

Write **one digit** in each empty box.





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?





14 Here are two number patterns.

There are **three** missing numbers.

Write them in the empty boxes.

| | | | | 15 | |
|----|----|----|----|----|--|
| | | | | 20 | |
| | | | | 25 | |
| 18 | 21 | 24 | 27 | | |
| | | | | | |



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

One is done for you.

measurement

unit

1 mark



Complete the table to show how many tens and ones are in 16 each number.

One is done for you.

| Number | Tens | Ones |
|--------|------|------|
| 87 | 8 | 7 |
| 23 | | |
| 5 | | |

1 mark

17



Use these numbers to complete the number sentences below.

Use all three numbers each time.





18 Ben has 40 cards.

He shares them equally between **4** party bags.



How many cards does he put in each bag?





Tick them.











Circle the calculation with the largest answer.



20

1 mark

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





21

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

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





23 Look at these number cards.

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





8 children are eating plums.

Each child eats **2** plums.

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





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

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

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

rows



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

15 people get off.

8 people get on.

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





27 Complete the number sentences.



0 1 mark



Kemi has **£1**

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

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





Sita has **8** strawberries.

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

How many does she eat?

strawberries



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**?







Write the **two** missing numbers below.



2 marks

End of test

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