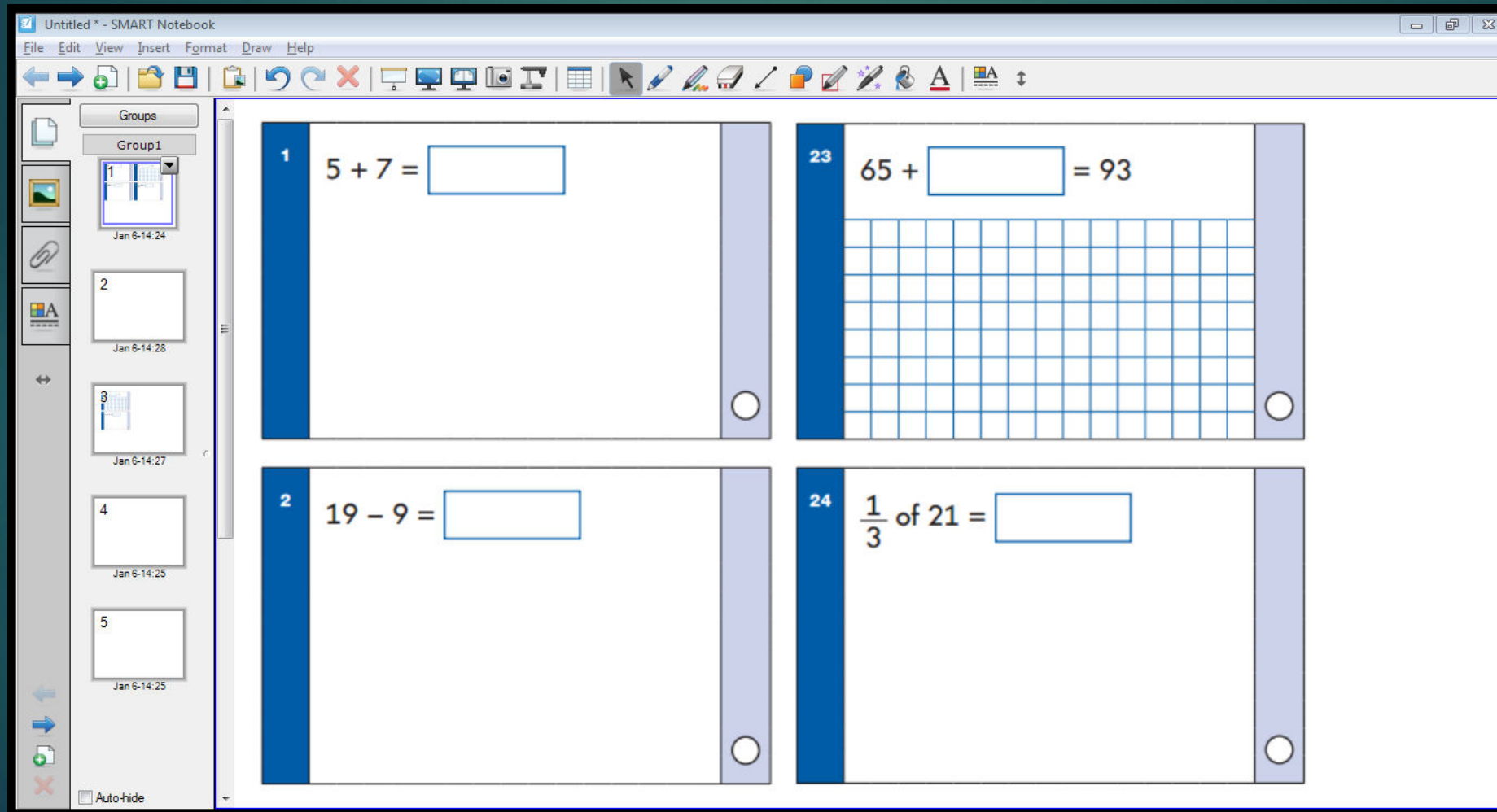




Maths Workshop Y2

The Key Stage 1 maths test involves two papers Paper 1: arithmetic. Taking around 20-25 minutes.





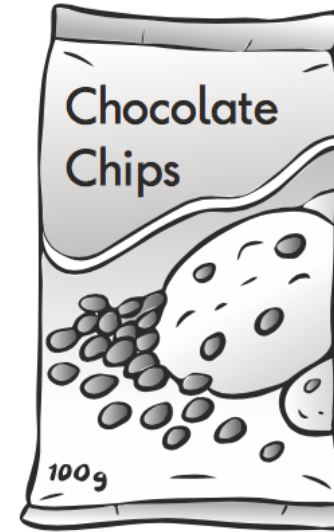
Paper 2: mathematical fluency, problem-solving and reasoning. Taking around 30 minutes, with a break if necessary. There will be a variety of question types: multiple choice, matching, true/false, constrained (e.g. completing a chart or table; drawing a shape) and less constrained (e.g. where children have to show or explain their method).

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- ▶ Children will not be able to use any tools such as calculators or number lines. However they will be able to use a ruler for Paper 2.
 - ▶ Content is heavily weighted towards 'Number' – (80-90%) focuses on number & place value, addition, subtraction, multiplication, division, calculations and fractions.
 - ▶ The other 10-20% tests measurement, shape and data.

There are **100g** of chocolate chips in the bag.

Sita uses **25g**.

Ben uses **35g**.



How many grams of chocolate chips are **left**
in the bag?

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Match each shape to the correct description.

One is done for you.

shape

triangle

square

octagon

circle

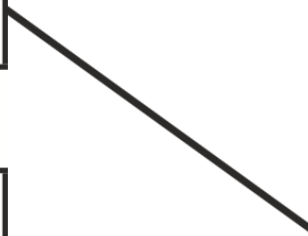
description

has 8 vertices

has 3 sides

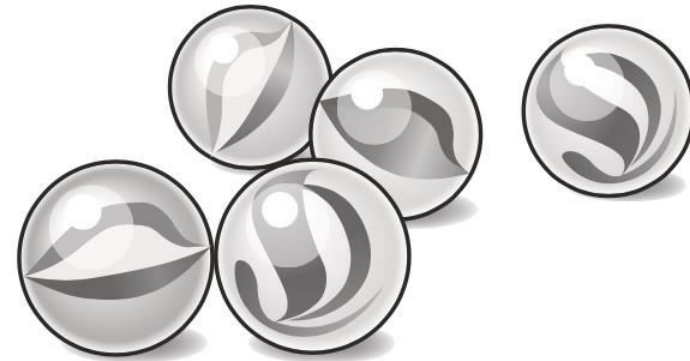
has 4 right angles

has no vertices



Write five coins that have a total of 37p.

Ben has **five** marbles.



Kemi has **seven times** that number.

How many marbles does Kemi have?

marbles

Working towards the expected standard

The pupil can:

- read and write numbers in numerals up to 100
- partition a two-digit number into tens and ones to demonstrate an understanding of place value, though they may use structured resources¹ to support them
- add and subtract two-digit numbers and ones, and two-digit numbers and tens, where no regrouping is required, explaining their method verbally, in pictures or using apparatus (e.g. $23 + 5$; $46 + 20$; $16 - 5$; $88 - 30$)
- recall at least four of the six² number bonds for 10 and reason about associated facts (e.g. $6 + 4 = 10$, therefore $4 + 6 = 10$ and $10 - 6 = 4$)
- count in twos, fives and tens from 0 and use this to solve problems
- know the value of different coins
- name some common 2-D and 3-D shapes from a group of shapes or from pictures of the shapes and describe some of their properties (e.g. triangles, rectangles, squares, circles, cuboids, cubes, pyramids and spheres).

Working at the expected standard

The pupil can:

- read scales* in divisions of ones, twos, fives and tens
- partition any two-digit number into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus
- add and subtract any 2 two-digit numbers using an efficient strategy, explaining their method verbally, in pictures or using apparatus (e.g. $48 + 35$; $72 - 17$)
- recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships (e.g. If $7 + 3 = 10$, then $17 + 3 = 20$; if $7 - 3 = 4$, then $17 - 3 = 14$; leading to if $14 + 3 = 17$, then $3 + 14 = 17$, $17 - 14 = 3$ and $17 - 3 = 14$)
- recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary
- identify $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{4}$, of a number or shape, and know that all parts must be equal parts of the whole
- use different coins to make the same amount
- read the time on a clock to the nearest 15 minutes
- name and describe properties of 2-D and 3-D shapes, including number of sides, vertices, edges, faces and lines of symmetry.

Working at greater depth

The pupil can:

- read scales* where not all numbers on the scale are given and estimate points in between
- recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts
- use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g. $29 + 17 = 15 + 4 + \square$; 'together Jack and Sam have £14. Jack has £2 more than Sam. How much money does Sam have?' etc.)
- solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?')
- read the time on a clock to the nearest 5 minutes
- describe similarities and differences of 2-D and 3-D shapes, using their properties (e.g. that two different 2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices, but different dimensions).

How can parents help?

- ✓ Look for and talk about numbers daily
- ✓ Count / sing in 2's, 5's, 10's and then 3's
- ✓ Ensure homework is completed
- ✓ Practise the methods we use in class
- ✓ Encourage telling the time using an analogue clock
- ✓ Measuring using, cm, m, g, kg,