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National Curriculum Test Practice Questions

Key Stages 1 and 2

- Full coverage of all curriculum areas for Key Stage 1 and 2 SATs

- Test-style questions presented topic by topic, to identify areas for further work

- Advice on how to plan teaching to maximise SATs success

Accompanied by a FREE tracker online

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Test Practice Questions Sample

What's included in this sample?

Key Stage 1

- Equivalence
- Multiplying 1
- Partitioning into tens and ones
- Further problem solving and calculating 2

Key Stage 2

Arithmetic

- Fractions 1
- Percentages

Reasoning

- Algebra 1
- Area, perimeter and volume 1

Answers

- Area, perimeter and volume answers and Numicon Activity Group links

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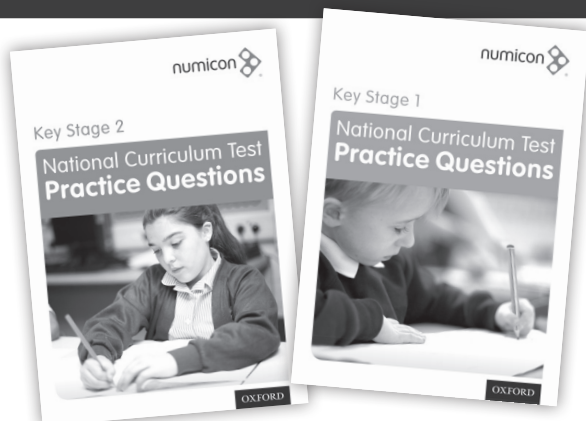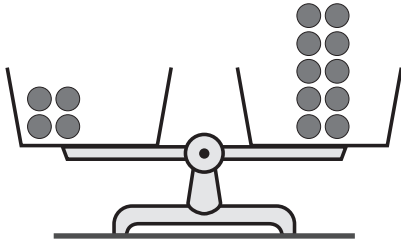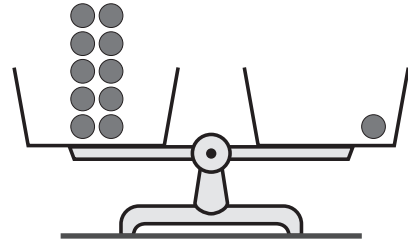

Key Stage 1 book also includes:

- Aural practice questions to prepare children for the first part of the Reasoning paper
- Mental practice to develop children's fluency throughout the year

Equivalence – empty box questions

Add the missing numbers to make the number sentences **balance**.

1

$4 + \boxed{} = 10$

2

$10 = \boxed{} + 1$

Make these equal on both sides of '**=**'.

3 $\boxed{} = 7 + 2$ **4** $8 = 5 + \boxed{}$ **5** $7 = \boxed{} + 3$

Add the missing numbers to make the number sentences **balance**.

6

$2 + 8 = 6 + \boxed{}$

7

$\boxed{} + 4 = 3 + 3$
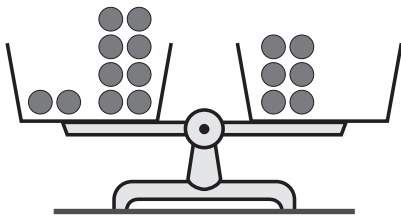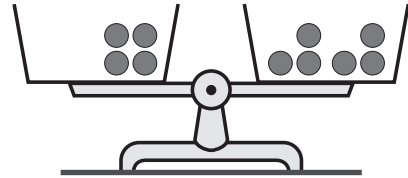
8 $6 - \boxed{} = 4$ **9** $7 = 10 - \boxed{}$ **10** $\boxed{} - 2 = 5$

These are **not** equal. Use **<** or **>**.

11 $3 + 3 \boxed{} 4 + 3$ **12** $3 + 5 \boxed{} 4 + 1$ **13** $2 + 7 \boxed{} 4 + 4$

Multiplying 1

1 Each pot needs **2** seeds.
Write the calculations.

| | + | | + | | + | | + | | + | | = | |

| | × | | = | |

2 Each pot contains **3** pencils.
Write the calculations.

| | + | | + | | + | | = | |

| | × | | = | |
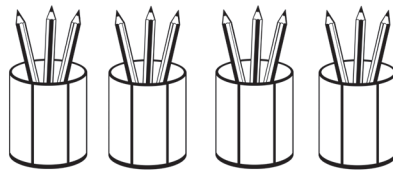
3 $1 \times 9 =$ ☐   **4** $6 \times 5 =$ ☐   **5** $4 \times 0 =$ ☐

6 Find the cost of:

5 apples ☐ p   **6** bananas ☐ p

2 pears ☐ p   **3** satsumas ☐ p

3 plums ☐ p

Fruit Bar

Apple 8p
Pear 9p
Banana 10p
Satsuma 5p
Plum 7p

Partitioning into tens and ones

1 10 + 8 = ☐

2 18 – 8 = ☐

3 40 + 6 = ☐

4 23 – 3 = ☐

5 7 + 80 = ☐

6 52 – 50 = ☐

7 30 + 9 = ☐

8 94 – 90 = ☐

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9 The squirrel has **17** nuts. How many are hidden?

☐

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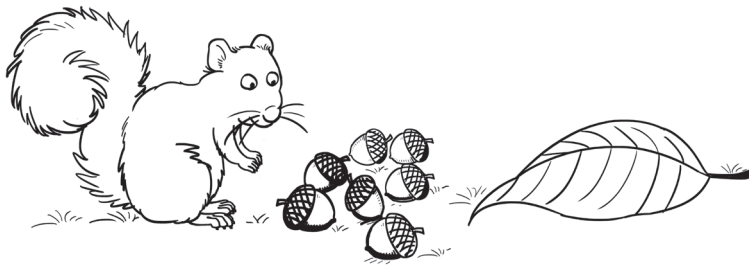
10 One minibus holds **10** passengers.

There are **29** people waiting for the minibuses.

Two minibuses arrive together and are filled.

How many people are still waiting?

☐

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11 50 + ☐ = 53

12 64 = 4 + ☐

13 ☐ = 70 + 2

14 58 – ☐ = 50

Further problem solving and calculating 2

1 Oranges are arranged in the tray with **5** oranges in each row. There are **4** rows. At snack time three children have an orange each. **How many** are **left** in the tray?
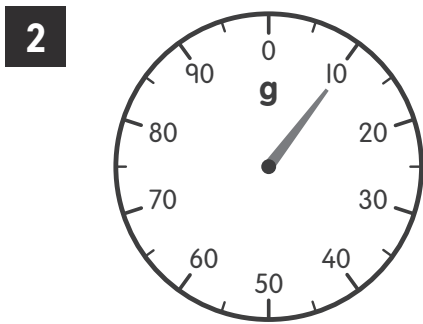
How much do each of these scales weigh now?

2

10 g extra are put on these scales.

3
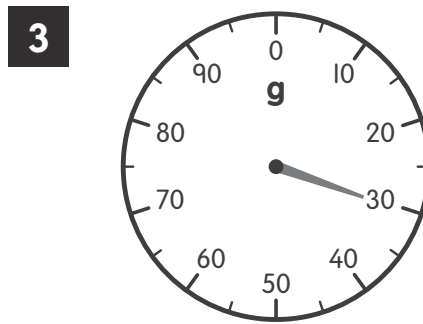
30 g extra are put on these scales.

4 Tick (✓) the descriptions that are **true**.
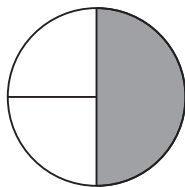
a) Shows one half.
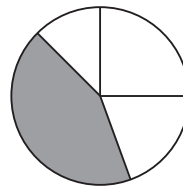
b) Shows one quarter.
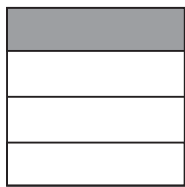
c) Shows one quarter.

d) Shows one third.
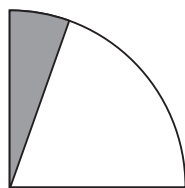
e) Shows one half.
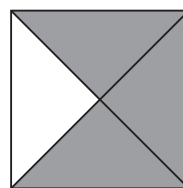
f) Shows three quarters.

Fractions 1

1 $\frac{3}{4}$ of 840 =

1 mark

2 $\frac{4}{5} - \frac{2}{5} =$

1 mark

3 $\frac{5}{8}$ of 4000 =

1 mark

4 $\frac{3}{8} + \frac{3}{4} =$

1 mark

5 $\frac{3}{7} + \square = \frac{5}{7}$

1 mark

6 $\frac{2}{3} - \frac{1}{9} =$

1 mark

7 $\frac{21}{9} - \frac{5}{9} =$

1 mark

8 $\frac{3}{5} + \frac{3}{4} =$

1 mark

Total: _____ / 8 marks

Percentages

1 30% of 60 =

1 mark

2 □% of 580 = 58

1 mark

3 25% of 200 =

1 mark

4 5% of 350 =

1 mark

5 90% of 450 =

1 mark

6 60% of □ = 300

1 mark

7 15% of 840 =

1 mark

8 72% of 2000 =

1 mark

Total: _____ / 8 marks

Algebra 1

1 Ela has some coins in her purse. She has 5 coins of one type and 3 of another type. Altogether she has £2.50.

What two types of coin does she have?

Ela has 5 ⬚ p coins and 3 ⬚ p coins.

1 mark

2 Here is an equation.

$25 \div x = x$

What is the value of x?

1 mark

3 The numbers in this sequence increase by equal amounts each time.

Write the 3 missing numbers.

5 ⬚ ⬚ ⬚ 15

What would the next number in this sequence be?

2 marks

4 △ and ◯ each stand for a different number.

◯ = 30

◯ + △ = △ × △

What is the value of △?

1 mark

Area, perimeter and volume 1

1 What is the perimeter of this shape?

12 cm

10 cm

4 cm

5 cm

3 cm

cm
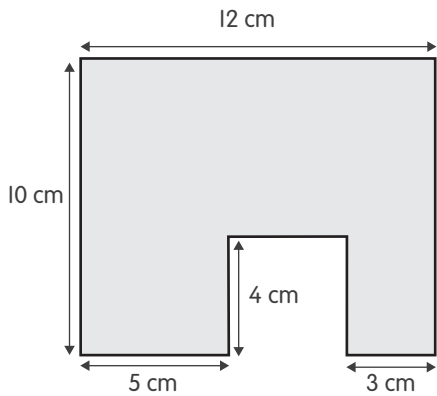
2 marks

2 Calculate the area of this trapezium.

12 cm

6 cm

7 cm

cm²
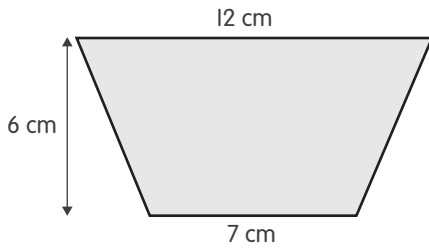
2 marks

3 The illustration shows a shaded square inside a larger square.

What is the difference between the areas of the larger square and the shaded square?

5 cm

16 cm

cm²
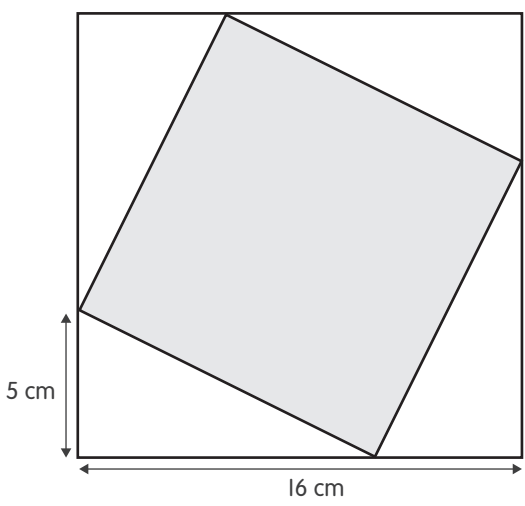
2 marks

| 15	1 mark for hands drawn on an analogue clock correctly showing **twenty to 4**. Do not accept indistinguishable hand lengths or the hour hand pointing directly towards the 3 or 4.	**1**	**GMS3 Mea 1**
16	2 marks for **£1.67** (2p + 5p + 10p + 50p + £1). 1 mark for evidence of adding the coins to the correct mass of 34.37 g, even if the final answer of £1.67 is not given.	**2**	**GMS5 Mea 7**
17	1 mark for **21 days** (1500 ÷ 70 = 21 $\frac{3}{7}$, which means it will last for 21 whole days)	**1**	**GMS5 Mea 7**
18	2 marks for **38 portions** 1 mark for 568 ÷ 15.	**2**	**GMS5 Mea 7**
Area and perimeter		
1	2 marks for **52 cm**. 1 mark for adding all 8 sides.	**2**	**GMS5 Mea 3**
2	2 marks for **57 cm²**. 1 mark for $\frac{1}{2}$ × (12 + 7) × 6.	**2**	**GMS6 Mea 2**
3	2 marks for **110 cm²** 1 mark for a correct attempt at the calculation, e.g. The area of a small white triangle = $\frac{1}{2}$ (5 × 11) = 27.5 cm² 4 white triangles = 27.5 × 4 = 110 cm²	**2**	**GMS6 Mea 2**
4	1 mark for **18 cm** 1 mark for **18 cm²** 1 mark for a correctly drawn shape such as 2 cm × 9 cm (area = 18 cm² but perimeter = 22 cm)	**3**	**GMS6 Mea 2**
5	2 marks for **6 m** (6000 mm). 1 mark for a correct attempt at the calculation but an incorrect conversion from mm to m.	**2**	**GMS5 Mea 3**
6	2 marks for **8 cm**. 1 mark for 168 = 3 × 7 × ?	**2**	**GMS6 Mea 4**
7	2 marks for **135 cm³**. 1 mark for 3 × 3 × 3 × 5 = 135 cm³	**2**	**GMS6 Mea 4**
Shapes and symmetry		
1	2 marks for: **H and L** **H**	**2**	**GMS3 Geo 1**
2	1 mark for **2.5 cm**	**1**	**GMS5 Mea 3**
3	1 mark for ticks on the **square** and the **pentagon**.	**1**	**GMS5 Geo 3**
4	1 mark for all lines of symmetry correctly drawn: 	**1**	**GMS4 Geo 2**

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