

Test technique tips

✓ Avoid using a written method for every arithmetic question.
✓ Be confident with your times table facts up to 12 x 12.
✓ Use jottings to support thinking and mental calculations. Children are often reluctant to write down jottings to help them. It can be a good idea to demonstrate this to children so children can see how to do this.
✓ Secure a formal written method for each of the four operations.
✓ Use estimation to check answers are reasonable.
✓ Use inverse to check answers are accurate.
✓ Learn key mathematical facts, e.g., measurement conversion facts such as 1 kg = 1,000 g.
✓ Practise questions that are 'context free'.
✓ Practise questions that are set in context.
✓ Annotate diagrams and drawings.
✓ Practise using mathematical equipment (rulers, protractors, mirrors).

Paper 1 – Arithmetic

The Arithmetic paper is based on **number, ratio, and algebra (this includes fractions, decimals, and percentages)**. Questions are presented as 'context-free' calculations and require children to construct a response rather than select the correct answer.

Paper 2 and paper 3 – Reasoning

The reasoning papers is based on all content domain areas across KS2 e.g.

- number
- ratio
- algebra
- measurement
- geometry
- statistics

Context free questions (arithmetic)

2

$$707 + 1,818 =$$

1 mark

7

$$\boxed{} = 4,500 + 600$$

1 mark

14

$$50 + (36 \div 6) =$$

1 mark

27

$$\frac{4}{5} \div 4 =$$

1 mark

Context free questions (reasoning 2 and 3)

Circle the number that is **10 times** greater than nine hundred and seven.

9,700 907 9,007 970 9,070

1 mark

Write the missing numbers to make this **multiplication** grid correct.

	×	<input type="text"/>	<input type="text"/>
<input type="text"/>	9	63	54
<input type="text"/>		56	48

1 mark

Write these numbers in order of size, starting with the **smallest**.

1.9 0.96 1.253 0.328

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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smallest

1 mark

The numbers in this sequence increase by the same amount each time.

Write the missing numbers.

<input type="text"/>	1	$1\frac{5}{8}$	$2\frac{1}{4}$	<input type="text"/>
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1 mark

1 mark

In context questions (reasoning 2 and 3)

8

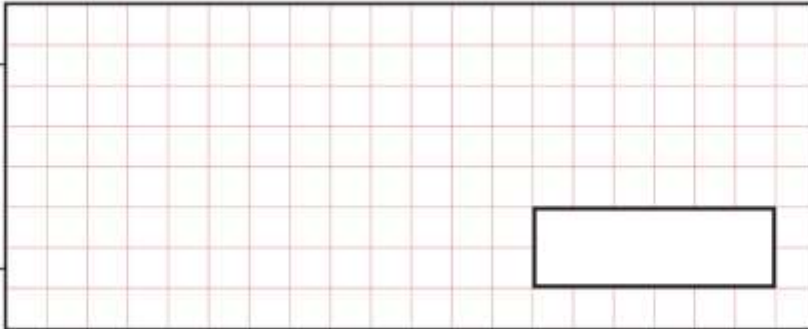
At the start of June, there were 1,793 toy cars in the shop.

During June,

- 8,728 more toy cars were delivered
- 9,473 toy cars were sold.

How many toy cars were left in the shop at the end of June?

Show
your
method



2 marks

14

Amina planted some seeds.

For every 3 seeds Amina planted, only 2 seeds grew.

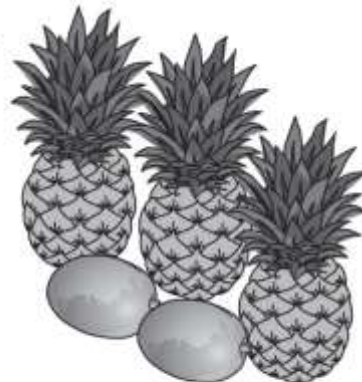
Altogether, 12 seeds grew.

How many seeds did Amina **plant**?

1 mark

3 pineapples cost the same as 2 mangoes.

One mango costs £1.35



How much does **one** pineapple cost?