





KEY


 Try mentally first

 Try a written method

 A. $694 + 200 =$

 B. $932 - 847 =$

 C. $8 \times 9 =$

 D. $64 \div 8 =$

Rapid Reasoning | Questions

Year 3 | Week 7 | Day 1

Q1 Which one of these column subtractions is correct — A, B or C?

A:	B:	C:
$\begin{array}{r} 600 \\ - 329 \\ \hline 329 \end{array}$	$\begin{array}{r} 600 \\ - 329 \\ \hline 381 \end{array}$	$\begin{array}{r} 600 \\ + 329 \\ \hline 271 \end{array}$

1 mark

Q2 Tick the two numbers that have digits that total 17?

nine hundred and seventeen

☐

four hundred and fifty-seven

☐

eighty-eight

☐

three hundred and ninety-five

☐

1 mark

Q3 Amir has smudged two of his calculations.

$8 \times \text{smudge} = 32$ $\text{smudge} \div 3 = 12$


What are the numbers he has smudged?


 and

1 mark


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 A. $37 \times 8 =$

 B. $6 \times 8 =$

 C. $358 + 300 =$

 D. $3 + 4 + 5 =$

Rapid Reasoning | Questions

Year 3 | Week 7 | Day 3

Q1 Write number sentences to find the answers to these questions.

What are 11 eights?

How many fours are in 36?

1 mark

Q2 Oliver counts from 0 in steps of 4.
Harriet counts from 0 in steps of 50.
Chloe counts from 0 in steps of 8.

Which children will say the number 100?

2 marks

Q3

HEALTHY TUCKSHOP



Oranges 35p each



Bananas 42p each



Packet of nuts 36p


Rhian buys a packet of nuts and an orange.


How much change does Rhian get from 80p?


1 mark


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 A. $4 \times ? = 32$

 B. $568 + 384 =$

 C. $\frac{1}{2}$ of 30 =

 D. $328 + 400 =$

Rapid Reasoning | Questions

Year 3 | Week 7 | Day 5

- Q1** Use these number cards to make two number sentences that are true.
Use each card once.

=	=	÷	×		
48	6	12	8	60	5

1 mark

- Q2** Amy and Sarah are comparing house numbers.
Amy lives at a number that is 49 more than Sarah's house number.
Amy lives at number 88.

What number does Sarah live at?

1 mark

- Q3** Match each measurement with the unit you would use to measure it.

The length of a football pitch	millilitres (ml)
The capacity of a bottle	degrees Celsius (°C)
The temperature of a radiator	kilograms (kg)
The mass of a parcel	metres (m)

1 mark

KEY



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Try a written method



A. $374 + 400 =$



B. $? \div 9 = 8$



C. $3 \times 4 =$



D. $832 - 159 =$

Rapid Reasoning | Questions

Year 3 | Week 8 | Day 1

Q1

a

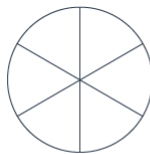
Shade $\frac{1}{3}$ of this shape.



1 mark

b

Shade $\frac{1}{3}$ of this shape.



1 mark

Q2

Four children are playing a computer game.
This table shows their scores.

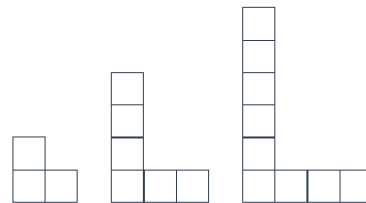
Name	Abdul	Ben	Carys	Danni
Score	398	402	420	389

Write the children's names in order of their highest score to lowest score.

1 mark

Q3

Tom makes a growing pattern out of plastic cubes.



a

How many cubes will Tom need to make the next shape in the pattern?

1 mark

b


Tom says, "I can predict I will need 30 cubes to make the 10th shape in the pattern."


How does Tom know this?


1 mark


KEY


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 Try a written method

 A. $675 + 287 =$

 B. $\frac{1}{4}$ of 20 =

 C. $2 \times 8 =$

 D. $342 + 400 =$

Rapid Reasoning | Questions

Year 3 | Week 8 | Day 2

Q1

869 – 198

Which of these is the best estimate of the answer to this calculation?

Tick one answer.

$860 - 200 = 660$

☐

$870 - 200 = 670$

☐

$870 - 100 = 770$

☐

$900 - 200 = 700$

☐

1 mark

Q2

Two digits have been rubbed off the whiteboard.

What are the missing digits?
Complete the boxes.

$$\begin{array}{r} \square 47 \\ + 3\square 1 \\ \hline 1038 \\ 1 \end{array}$$

1 mark

Q3

Draw the next two shapes in the sequence.



1 mark