

Check out

You should now be able to ...

✓ Use mental methods to calculate with whole numbers.	5	1 - 3
✓ Use a standard column method to do addition and subtraction.	5	4
✓ Use long multiplication.	6	5
✓ Multiply decimals by a single-digit number.	5	6
✓ Use short and long division.	5	6
✓ Use rounding to estimate and approximate.	5	7, 8
✓ Use a calculator and interpret the remainder in a division calculation.	5	9, 10

Test it

Questions

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Language Meaning

Column addition	Column addition is writing the numbers you are adding in columns. You start adding from the right.	$\begin{array}{r} 137 \\ + 62 \\ \hline 208 \\ \hline 11 \end{array}$
Long multiplication	A method you can use when multiplying two numbers with two or more digits.	$\begin{array}{r} 453 \\ \times 34 \\ \hline 13590 \\ 1812 \\ \hline 15402 \\ \hline 11 \end{array}$
Long division	A good method to use when dividing by a number with more than one digit.	$\begin{array}{r} 12 \\ 19 \overline{)228} \\ \underline{-19} \\ 38 \\ \underline{-38} \\ 0 \end{array}$ (1×9) $(22 - 19 = 3)$ (2×19) $228 \div 19 = 12$
Approximation	Rounding numbers to make a simpler calculation that is close to the exact answer	$68.4 + 33.2 \approx 70 + 30 \approx 100$

Example

1 Use a mental method to work out these calculations.

- a** $78 + 34 + 103$
b $94 - 67$

2 Do these calculations in your head.

- a** 7×8 **b** 9×6
c $36 \div 6$ **d** 14×10
e 0.5×100 **f** $75 \div 100$
g $64 \div 10$ **h** 3.5×100

3 Use a mental method to work out these multiplications.

- a** 8×24 **b** 35×7

4 Use a written method to work out these calculations.

- a** $96 + 153$ **b** $327 - 54$
c $17.6 + 59.5$ **d** $103.4 - 29.7$

5 Work out these multiplications using a written method.

- a** 135×12 **b** 328×13
c 35×247 **d** 434×41

6 Work out these multiplications using a written method.

- a** 14.7×9 **b** 7×20.9

7 Work out these divisions and leave with a remainder where necessary.

- a** $136 \div 8$ **b** $189 \div 9$
c $92 \div 6$ **d** $247 \div 12$
e $350 \div 14$ **f** $546 \div 21$

8 A rectangular garden is 6.9 m by 5.2 m. Estimate its area.

9 19 bottles of water cost £15.96 and 32 bottles of cola cost £48.25.

- a** Estimate the cost of 1 bottle of water.
b Estimate the cost of 1 bottle of cola.
c Approximately how many times more expensive is cola than water?

10 Use a calculator to work these out. Give your answer to 2 decimal places.

- a** $(9.1 - 5.7)^2 \div 3$
b $\frac{63 - 2.4^2 \times 1.8}{\sqrt{13^2 - 7^2}}$

11 Emily is 296 days old. How many weeks and days is this?

12 Convert.

- a** 2300 hours into days and hours
b 3 days into seconds

What next?

Score	0 - 4	Your knowledge of this topic is still developing. To improve look at Formative test: 3A-7; MyMaths: 1002, 1010, 1020, 1021, 1026, 1028, 1041, 1345, 1367, 1381, 1392, 1916, 1917 and 1933
	5 - 9	You are gaining a secure knowledge of this topic. To improve look at InvisiPen: 121, 122, 123, 125, 126, 127 and 128
	10 - 12	You have mastered this topic. Well done, you are ready to progress!