

As outcomes, Year 5 pupils should, for example:

Use, read and write, spelling correctly:
operation, sign, symbol, number sentence, equation...

Make and justify decisions:

- choose the appropriate operation(s) to solve word problems and number puzzles;
- decide whether calculations can be done mentally or with pencil and paper or a calculator;
- explain and record how the problem was solved.

For examples of problems see sections on: puzzles (page 79), 'real life' (page 83), money (page 85), measures (page 87) and time (pages 89 and 101).

Make up 'number stories' to reflect statements like:

$$\begin{array}{ll} 1435 + 3245 = 4680 & 38.7 \times 24 = 928.8 \\ 572 - 25 = 547 & 564 \div 8 = 70.5 \end{array}$$

For example:

If 8 equal pieces are cut from 564 mm of string, each piece is 70.5 mm long.

Recognise the operation represented by the $*$ in examples such as:

$$\begin{array}{ll} 319 * 274 = 593 & 572 * 291 = 281 \\ 18 * 6 = 108 & 228 * 38 = 6 \end{array}$$

Look at multiplications of different pairs of numbers. Discuss which is easiest/hardest to do and justify why.

As outcomes, Year 6 pupils should, for example:

Use, read and write, spelling correctly:
operation, sign, symbol, number sentence, equation...

Make decisions:

- choose the appropriate operation(s) to solve word problems and number puzzles;
- decide whether calculations can be done mentally or with pencil and paper or a calculator;
- explain and record how the problem was solved.

For examples of problems see sections on: puzzles (page 79), 'real life' (page 83), money (page 85), measures (page 87) and time (pages 89 and 101).

Make up 'number stories' to reflect statements like:

$$\begin{array}{ll} 143.5 + 32.45 = 175.95 & 6.83 \times 27 = 184.41 \\ 57.2 - 2.56 = 54.64 & 448.91 \div 53 = 8.47 \end{array}$$

For example:

27 compact discs at £6.83 each will cost £184.41.

Recognise the operation represented by the $*$ in examples such as:

$$\begin{array}{ll} 377 * 58 = 435 & 377 * 58 = 319 \\ 377 * 58 = 6.5 & 377 * 58 = 21\ 866 \end{array}$$

Look at divisions of different pairs of numbers. Discuss which is easiest/hardest to do and justify why.