

Use formal methods for subtraction of decimals

1 Complete the calculations.

a)
$$\begin{array}{r} 5.8 \\ - 3.1 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 5.8 \\ - 3.8 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 8.06 \\ - 2.71 \\ \hline \end{array}$$

2 Which column subtractions could you use to work out $8 - 2.7$?
Tick your answers.

$$\begin{array}{r} 8 \\ - 2.7 \\ \hline \end{array}$$

$$\begin{array}{r} 8.0 \\ - 2.7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2.7 \\ \hline \end{array}$$

Discuss your answers with a partner.

3 Huan has worked out $3.54 - 2.71$ incorrectly.

a) What mistake has he made?

$$\begin{array}{r} 3.54 \\ - 2.71 \\ \hline 1.23 \end{array}$$

b) Use the grid to find the correct answer.

$$\begin{array}{r} 3.54 \\ - 2.71 \\ \hline \end{array}$$

4 Work out the calculations using the column method.

a) $38.6 - 11.3$

c) $38.6 - 9.7$

e) $37 - 14.8$

b) $38.6 - 14.8$

d) $23.66 - 12.73$

f) $27.3 - 5.69$

5 Kim buys a magazine for £2.89
She pays with a £10 note.
How much change should she receive?

Kim should receive change.

6 Work out the values of the expressions.

$w = 3.4$

$x = 5.84$

$y = 27$

$z = 4.08$

a) $x - w =$

c) $y - w =$

e) $z - w =$

b) $x - z =$

d) $y - x =$

f) $y + x - w =$

7 Complete the subtractions.

a) $1.67 - \frac{3}{10} =$

d) $1.67 - \frac{3}{4} =$

b) $1.67 - \frac{79}{100} =$

e) $1\frac{1}{2} - 0.43 =$

c) $1.67 - \frac{1}{4} =$

f) $1\frac{3}{4} - 0.81 =$

8 Solve the equations.

a) $a + 1.7 = 54$

d) $5 = d + 3.15$

$a =$

$d =$

b) $5.4 = b - 1.7$

e) $5.9 = e - 3.05$

$b =$

$e =$

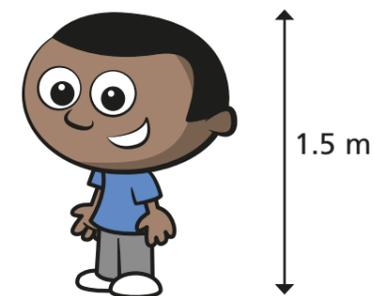
c) $c + 2.58 = 7.6$

f) $f + 1.65 = 2.78 + 3.51$

$c =$

$f =$

9 Mo is 1.5 m tall.



Alex is 14 cm shorter than Mo.

Tom is 14 cm taller than Mo.

Aisha is 27 cm shorter than Alex.

- a) Work out the heights of the other students.
Give your answers in metres.

Alex's height =

Tom's height =

Aisha's height =

- b) Work out the range of all four heights.

range