

Use formal methods for addition of decimals

1 Tick the calculations that are correct.

$0.3 + 0.4 = 0.7$ $0.5 + 0.5 = 1.0$ $0.8 + 0.3 = 0.11$

$1.3 + 1.7 = 2.10$ $0.6 + 0.8 = 1.4$ $0.3 + 0.4 + 0.5 = 0.12$

2 Complete the calculations.

a)

		5	·	6
	+	3	·	2
<hr/>				
			·	
<hr/>				

c)

		5	·	6
	+	3	·	8
<hr/>				
			·	
<hr/>				

b)

		5	·	6
	+	3	·	4
<hr/>				
			·	
<hr/>				

d)

		2	3	·	7
	+	4	6	·	8
<hr/>					
				·	
<hr/>					

3 Tick the calculations that are correct.

$0.03 + 0.04 = 0.07$ $0.51 + 0.5 = 0.56$ $0.99 + 0.01 = 1$

$0.99 + 0.1 = 0.109$ $0.99 + 0.1 = 1.09$ $0.2 + 0.3 + 0.41 = 0.91$

4 Complete the calculations.

a)

		5	·	0	4
	+	3	·	7	2
<hr/>					
			·		
<hr/>					

c)

		5	3	·	7	5
	+	2	6	·	3	6
<hr/>						
				·		
<hr/>						

b)

		2	·	8	6
	+	3	·	1	8
<hr/>					
			·		
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d)

		1	2	·	3	6
	+		7	·	6	4
<hr/>						
				·		
<hr/>						

5 Which column additions could you use to calculate $4.5 + 7$? Tick your answers.

		4	·	5
	+	7	·	
<hr/>				
			·	
<hr/>				

		4	·	5
	+		·	7
<hr/>				
			·	
<hr/>				

		4	·	5
	+	7	·	0
<hr/>				
			·	
<hr/>				

Discuss your answers with a partner.



6 Use the column method to work out the calculations.

a) $38.6 + 11.3$

c) $64.2 + 28$

e) $37.6 + 1.08$

b) $38.6 + 14.8$

d) $23.66 + 51.3$

f) $27.3 + 5.2$

7

$w = 7.4$

$x = 1.84$

$y = 37$

$z = 4.02$

Work out the values of the expressions.

a) $w + x =$

c) $x + y =$

e) $w + x + z =$

b) $y + w =$

d) $z + y =$

f) $w + x + y + z =$

8

This is part of a menu in a cafe.

sandwich	£3.49
soup	£4
tea	£1.59
coffee	£1.79
cake	£2.50

Find the total cost of:

• tea and sandwich

• coffee and cake

• soup, tea and coffee

• sandwich, cake and coffee

9

Complete the calculations.

a) $1.67 + \frac{1}{4} =$

c) $1.67 + \frac{4}{5} =$

b) $1.67 + \frac{3}{4} =$

d) $1.67 + 1\frac{27}{100} =$

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) $5.9 = e - 3.05$

$b =$

$e =$

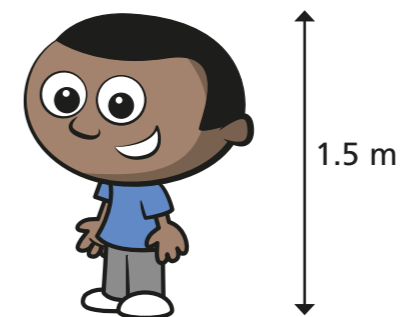
c) $c + 2.58 = 7.6$

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