

# 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/>							
					.		
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b) 

		2	.	8	6
	+	3	.	1	8
<hr/>					
			.		
<hr/>					

d) 

		1		2	.	3	6
	+			7	.	6	4
<hr/>							
					.		
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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)  $1.67 + 1\frac{27}{100} =$