

# Adding and subtracting decimals with a different number of decimal places (problem solving)

1 Work out the calculations.

a)  $8.37 + 1.4$

		8	.	3	7
	+	1	.	4	
		<hr/>			
		9	.	7	7
		<hr/>			

d)  $2.9 - 1.76$

		2	.	9	0
	-	1	.	7	6
		<hr/>			
		1	.	1	4
		<hr/>			

b)  $12.5 + 8.7$

		1	2	.	5
	+		8	.	7
		<hr/>			
		2	1	.	2
		1	1		

e)  $12.7 + 1.953$

		1	2	.	7		
	+		1	.	9	5	3
		<hr/>					
		1	4	.	6	5	3
		1					

c)  $5.73 - 1.8$

		5	.	7	3
	-	1	.	8	
		<hr/>			
		3	.	9	3
		<hr/>			

f)  $17 - 1.43$

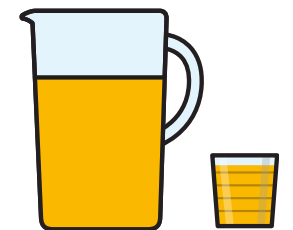
		1	7	.	0	0	
	-		1	.	4	3	
		<hr/>					
		1	5	.	5	7	
		<hr/>					

2 Miss Rose drives 12.8 km to pick up a friend and then drives 1.37 km to a coffee shop.

How far does Miss Rose drive in total?

14.17 km

3 A full jug contains 1.3 litres of juice.  
A glass of juice is poured from a full jug.  
The glass contains 0.45 litres of juice.



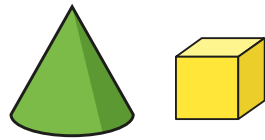
a) How much juice is left in the jug?

0.85 l

b) Another glass of juice is poured from the jug.  
This glass contains 0.325 litres of juice.  
How much juice is left in the jug now?

0.525 l

- 4 The mass of a cone is 0.3 kg.  
The mass of a cube is 0.176 kg.  
What is the total mass of the cone and the cube?



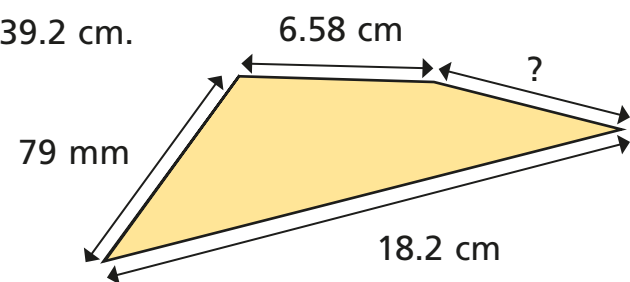
0.476 kg

- 5 Aisha buys this comic.  
How much change does she get from a £10 note?  
Show all your workings.



£ 7.11

- 6 Here is an irregular quadrilateral.  
The perimeter of the shape is 39.2 cm.  
Find the unknown length.



6.52 cm

Compare methods with a partner.

What is the same and what is different about your methods?



- 7 A box contains 3.25 kg of washing powder.  
Mr Khan uses 80 g of powder per wash.  
He does 10 washes.  
How much washing powder is left?

2.45 kg

- 8 Ron is 1.18 m tall.  
How many centimetres too short  
is Ron to go on the ride?



22 cm

- 9 Annie buys a book and pays with a £20 note.  
She receives £6.55 change.  
Then, Annie goes to the bakery and buys bread  
with a £5 note. She receives £3.30 change.  
What is the total cost of the book and the bread?



£ 15.15