

Adding decimals with a different number of decimal places

1 Ron is adding 1.4 and 2.53

He makes each number with counters.

Ones	Tenths	Hundredths
●	● ● ● ●	
● ●	● ● ● ● ●	● ● ●

a) What is the answer to Ron's calculation?

3.93

b) Explain your method to a partner.

c) Did you have to make an exchange? No

2 Work out the additions.

a)

		3	•	0	2
	+	1	•	6	
		4	•	6	2

c)

		2	•	8	
	+	3	•	4	5
		6	•	2	5

b)

		1	3	•	5
	+		0	•	2 3
		1	3	•	7 3

d)

			6	•	1 5
	+	1	3	•	9
		2	0	•	0 5

3 Filip is adding two numbers together.

He writes it as a column addition.

$$\begin{array}{r} 13.8 \\ + 1.95 \\ \hline 3.33 \\ \hline 11 \end{array}$$

a) What mistake has Filip made?

He hasn't correctly lined up his numbers in the columns.

b) Use the column method to work out the correct answer.

		1	3	•	8
	+		1	•	9 5
		1	5	•	7 5

4 Use the column method to work out the additions.

a) $2.36 + 1.9$

b) $14.82 + 3.7$

		2	•	3 6	
	+		1	•	9
		4	•	2 6	

		1	4	•	8 2
			3	•	7
		1	8	•	5 2

5 Use the column method to work out the additions.

a) $0.59 + 11.9$

		0	5	9	
+	1	1	9		
	1	2	4	9	
		1			

c) $0.591 + 1.73$

		0	5	9	1
+	1	7	3		
	2	3	2	1	
	1	1			

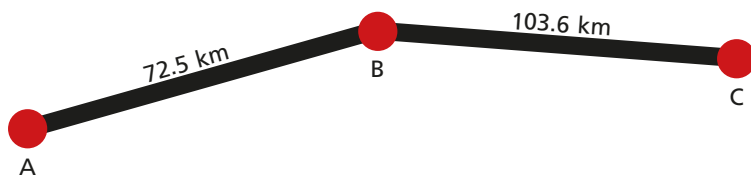
b) $77.34 + 1.82$

	7	7	3	4	
+		1	8	2	
	7	9	1	6	
		1			

d) $3.2 + 1.84 + 0.931$

		3	2		
		1	8	4	
+	0	9	3	1	
	5	9	7	1	
	1				

6 Mr Hall drives from point A to point B, then on to point C.



What is the total distance that Mr Hall drives?

176.1 km

7 Here are four number cards.

3.8

4.19

0.72

11.46

a) What is the greatest total you can make by adding two of the numbers?

Complete the calculation.

$11.46 + 4.19 = 15.65$

b) What is the sum of the four numbers?

20.17

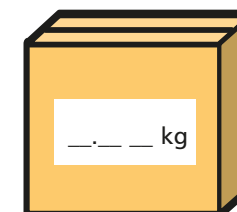
8 Work out the missing digits.

a) $\underline{2}4.3 + 1\underline{5}.37 = 39.67$

b) $4.8\underline{5} + \underline{7}.\underline{8} = 12.65$

9 The total mass of the two boxes is 10.85 kg.

What could the mass of each box be? *Various answers.*



How many answers can you find?