

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
			3	4
				5
			6	2
				5

b)

		1	3	5
		+	0	2
			0	2
			3	7
				3

d)

			6	1
			+	1
			1	3
				9
			2	0
				5



- 3 Filip is adding two numbers together.
He writes it as a column addition.

$$\begin{array}{r} 13.8 \\ + 1.95 \\ \hline 3.33 \\ \hline 1.1 \end{array}$$

- 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
			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
			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	

c) $0.591 + 1.73$

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

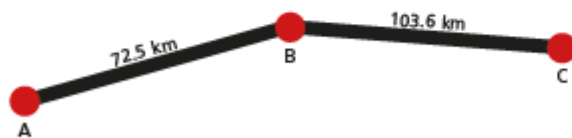
b) $77.34 + 1.82$

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

d) $3.2 + 1.84 + 0.931$

		3	2		
		1	8	4	
+	0	9	3	1	
	5	9	7	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
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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) $4.8\underline{5} + \underline{7}.8 = 12.65$

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?