

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
				1	

b)

		1	3	•	5
	+		0	•	2 3
		1	3	•	7 3

d)

				6	•	1 5
	+	1	3	•	9	
		2	0	•	0 5	
				1		1

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

		1	3	•	8
	+		1	•	9 5
			3	•	3 3
					1 1

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
					1

4 Use the column method to work out the additions.

a) 2.36 + 1.9

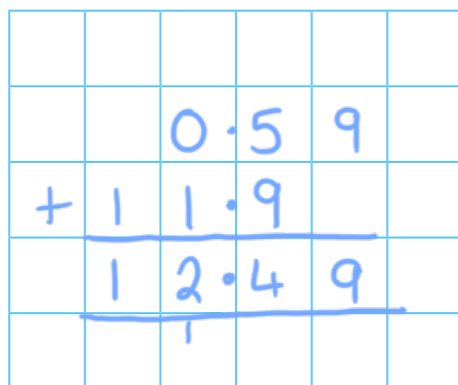
b) 14.82 + 3.7

		2	•	3 6	
	+		1	•	9
		4	•	2 6	
				1	

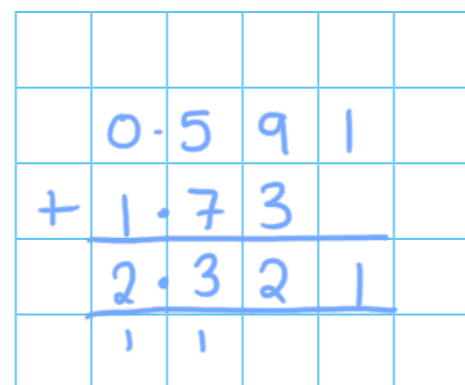
		1	4	•	8 2
			3	•	7
		1	8	•	5 2
				1	

5 Use the column method to work out the additions.

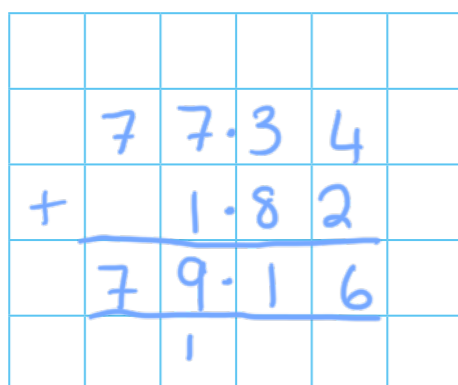
a) $0.59 + 11.9$



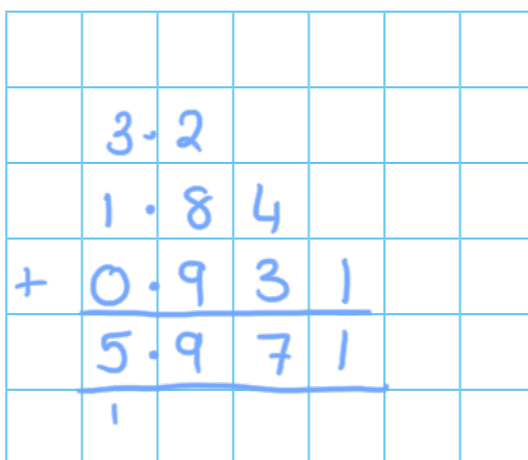
c) $0.591 + 1.73$



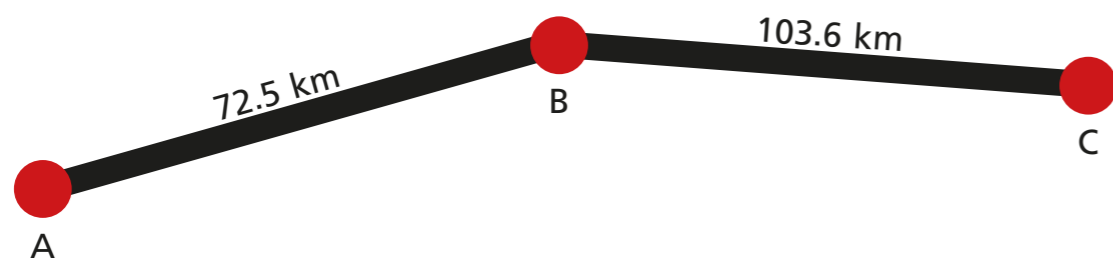
b) $77.34 + 1.82$



d) $3.2 + 1.84 + 0.931$



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

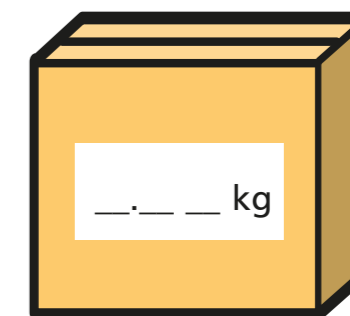
8 Work out the missing digits.

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?