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?

b) Explain your method to a partner.

c) Did you have to make an exchange? _____.

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2 Work out the additions.

a)

$$
\begin{array}{r}
3.0\;2 \\
+\;1.6 \\
\hline
. \\
\hline
\end{array}
$$

c)

$$
\begin{array}{r}
2.8 \\
+\;3.4\;5 \\
\hline
. \\
\hline
\end{array}
$$

b)

$$
\begin{array}{r}
1\;3.5 \\
+\quad 0.2\;3 \\
\hline
. \\
\hline
\end{array}
$$

d)

$$
\begin{array}{r}
6.1\;5 \\
+\;1\;3.9 \\
\hline
. \\
\hline
\end{array}
$$

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3 Filip is adding two numbers together.

He writes it as a column addition.

a) What mistake has Filip made?

_____

_____

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

$$
\begin{array}{r}
1\ \ 3 \bullet 8 \\
+\ \ 1 \bullet 9\ \ 5 \\
\hline
3 \bullet 3\ \ 3 \\
\hline
{\scriptstyle 1}\quad{\scriptstyle 1}\ \ \ \ \ \\
\end{array}
$$

4 Use the column method to work out the additions.
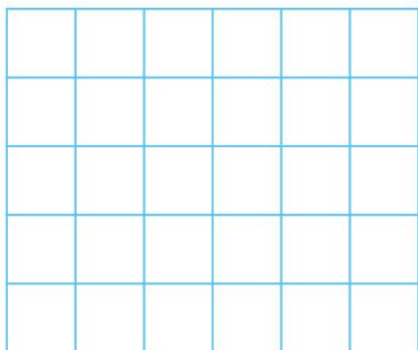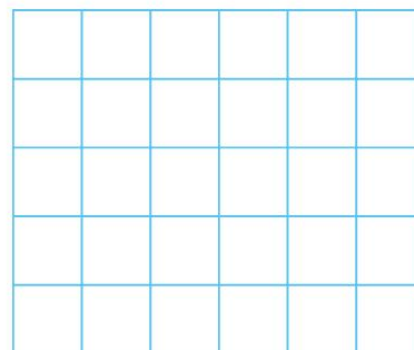
a) 2.36 + 1.9
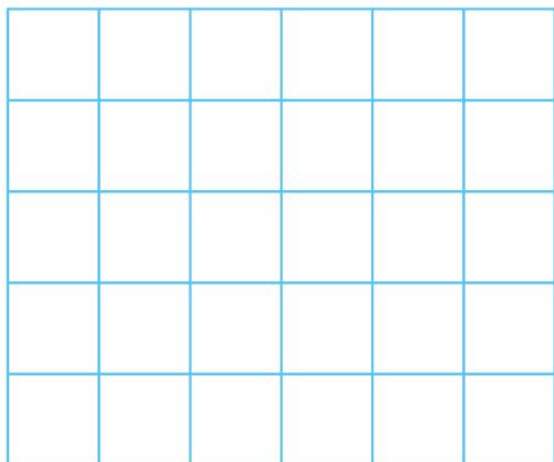
b) 14.82 + 3.7
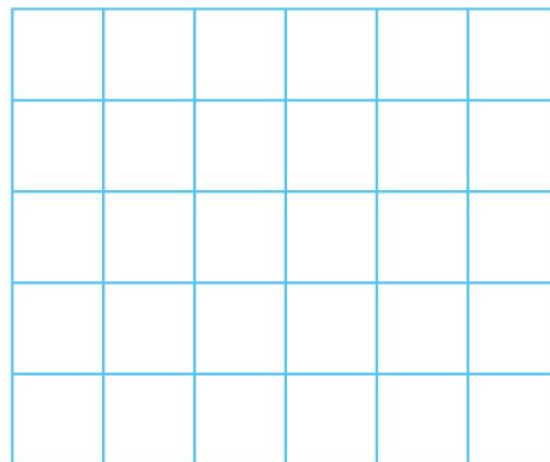
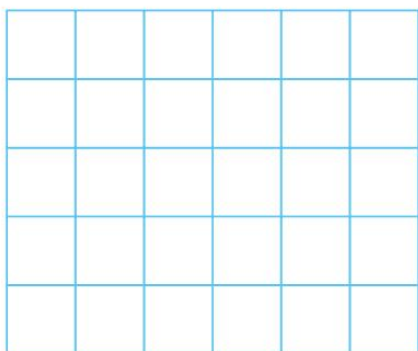**5** Use the column method to work out the additions.
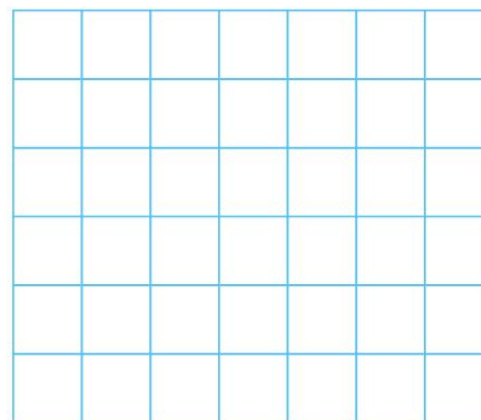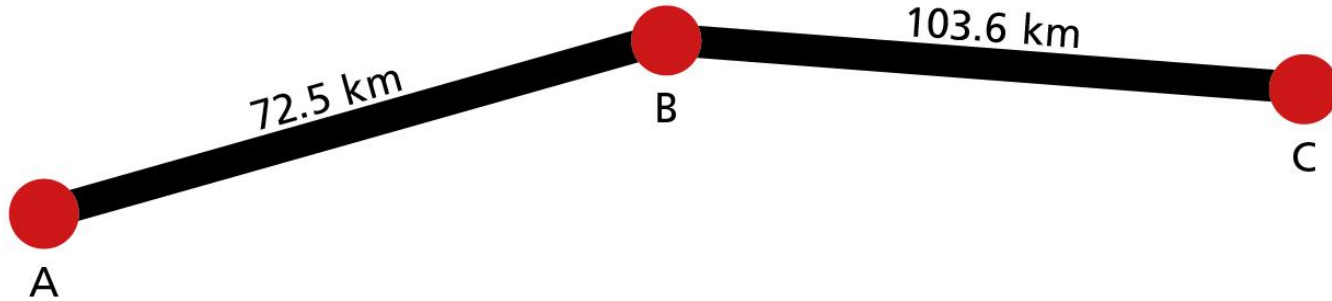
a) 0.59 + 11.9

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?

[   ] 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.

[   ] + [   ] = [   ]

b) What is the sum of the four numbers?
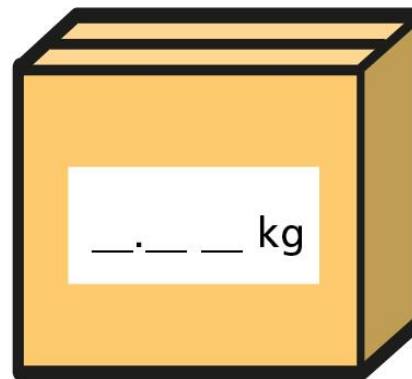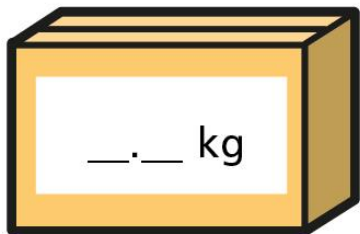
[   ]

8 Work out the missing digits.

a) __4.3 + 1__.37 = 39.67   b) 4.8__ + __.__ = 12.65

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

What could the mass of each box be?

__.__ kg

__.__ __ kg

How many answers can you find?