

# Subtracting decimals with a different number of decimal places

1 Use place value counters to help you work out the subtractions.

Ones	Tenths	Hundredths

a)

$$\begin{array}{r} 5 \cdot 3 \ 6 \\ - 1 \cdot 2 \phantom{0} \\ \hline 4 \cdot 1 \ 6 \end{array}$$

c)

$$\begin{array}{r} 5 \cdot 3 \ 6 \\ - 3 \cdot 8 \phantom{0} \\ \hline 1 \cdot 5 \ 6 \end{array}$$

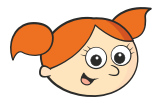
b)

$$\begin{array}{r} 5 \cdot 3 \ 6 \\ - 3 \cdot 5 \phantom{0} \\ \hline 1 \cdot 8 \ 6 \end{array}$$

d)

$$\begin{array}{r} 5 \cdot 3 \ 6 \\ - 4 \cdot 7 \phantom{0} \\ \hline 0 \cdot 6 \ 6 \end{array}$$

2 Alex is using counters to help her work out  $4.7 - 1.35$



I can't do this as I don't have any hundredths counters.

Do you agree with Alex? No

Talk about it with a partner.

3 Complete the subtractions.

a)

$$\begin{array}{r} 2 \cdot 3 \ 6 \\ - 1 \cdot 4 \phantom{0} \\ \hline 0 \cdot 9 \ 6 \end{array}$$

c)

$$\begin{array}{r} 7 \cdot 3 \ 0 \\ - 1 \cdot 1 \ 5 \\ \hline 6 \cdot 1 \ 5 \end{array}$$

b)

$$\begin{array}{r} 6 \cdot 1 \ 5 \\ - 3 \cdot 8 \phantom{0} \\ \hline 2 \cdot 3 \ 5 \end{array}$$

d)

$$\begin{array}{r} 2 \ 4 \cdot 3 \ 0 \\ - 3 \cdot 1 \ 2 \\ \hline 2 \ 1 \cdot 2 \ 8 \end{array}$$

4 Use the column method to work out the subtractions.

a)  $13.59 - 1.82$

$$\begin{array}{r} 2 \\ 13 \cdot 59 \\ - 1 \cdot 82 \\ \hline 11 \cdot 77 \end{array}$$

c)  $5.6 - 1.39$

$$\begin{array}{r} 5 \cdot 6 \ 0 \\ - 1 \cdot 39 \\ \hline 4 \cdot 21 \end{array}$$

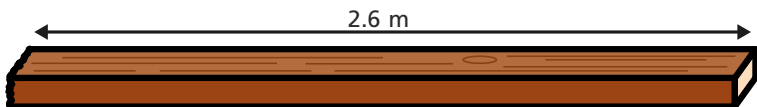
b)  $73.84 - 9.2$

$$\begin{array}{r} 6 \\ 73 \cdot 84 \\ - 9 \cdot 2 \phantom{0} \\ \hline 64 \cdot 64 \end{array}$$

d)  $18.2 - 3.64$

$$\begin{array}{r} 17 \cdot 2 \ 0 \\ - 3 \cdot 64 \\ \hline 14 \cdot 56 \end{array}$$

- 5 A plank of wood measures 2.6 m.  
A carpenter cuts a piece of wood from the plank that is 0.52 m long.



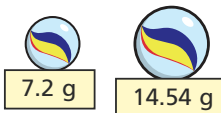
- a) What is the length of the remaining plank?

$2.08$  m

- b) The carpenter cuts a second piece of wood from the plank.  
She now has 0.3 m of the plank remaining.  
What is the length of the second piece of wood that she cut?

$1.78$  m

- 6 The mass of a bag of marbles is 54.3 g.  
These two marbles are removed from the bag.



What is the mass of the bag of marbles now?

$32.56$  g

- 7 Work out the missing digits.

$$\underline{1}3.4 - 2.5\underline{9} = 10.81$$

- 8 Use the column method to work out the subtractions.

a)  $14 - 2.7$

		1	4	.	0
-			2	.	7
		1	1	.	3

d)  $26 - 3.91$

		2	6	.	0
-			3	.	91
		2	2	.	09

b)  $8 - 3.65$

		8	.	0	
-		3	.	65	
		4	.	35	

e)  $25 - 3.842$

		2	5	.	0
-			3	.	842
		2	1	.	158

c)  $20 - 2.85$

		2	0	.	0
-			2	.	85
		1	7	.	15

f)  $90 - 0.821$

		9	0	.	0
-			0	.	821
		8	9	.	179