

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)

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

c)

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

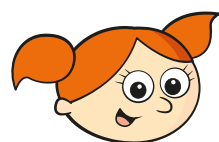
b)

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

d)

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

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)

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

c)

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

b)

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

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) $13.59 - 1.82$

$$\begin{array}{r} 2 \\ 13.59 \\ - 1.82 \\ \hline 11.77 \end{array}$$

c) $5.6 - 1.39$

$$\begin{array}{r} 5.60 \\ - 1.39 \\ \hline 4.21 \end{array}$$

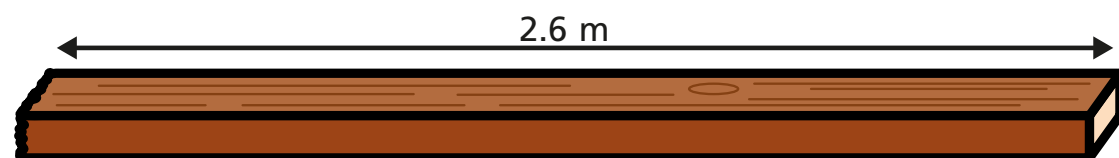
b) $73.84 - 9.2$

$$\begin{array}{r} 6 \\ 73.84 \\ - 9.2 \\ \hline 64.64 \end{array}$$

d) $18.2 - 3.64$

$$\begin{array}{r} 11 \\ 18.20 \\ - 3.64 \\ \hline 14.56 \end{array}$$

- 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.



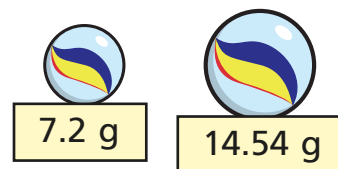
- a) What is the length of the remaining plank?

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	~~3~~	³ 0			
-		2	7			
	1	1	3			

d) $26 - 3.91$

	2	~~5~~	~~6~~	⁹ 0		
-		3	9	1		
	2	2	0	9		

b) $8 - 3.65$

	~~8~~	⁸ 0	⁹ 0			
-	3	6	5			
	4	3	5			

e) $25 - 3.842$

	2	~~4~~	~~5~~	⁹ 0		
-		3	8	4	2	
	2	1	1	5	8	

c) $20 - 2.85$

	~~2~~	¹⁰ 0	⁹ 0			
-		2	8	5		
	1	7	1	5		

f) $90 - 0.821$

	~~9~~	⁹ 0	⁹ 0	⁹ 0		
-		0	8	2	1	
	8	9	1	7	9	