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)

	5 • 3	6
–	1 • 2	
	4 • 1	6

c)

	~~5~~ 4 • 13	6
–	3 • 8	
	1 • 5	6

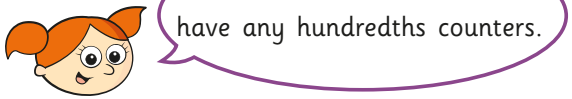
b)

	~~5~~ 4 • 13	6
–	3 • 5	
	1 • 8	6

d)

	~~5~~ 4 • 13	6
–	4 • 7	
	0 • 6	6

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



Do you agree with Alex? No.

Talk about it with a partner.

3 Complete the subtractions.

a)

	~~2~~ 1 • 13	6
–	1 • 4	
	0 • 9	6

c)

	7 • ~~3~~ 2	10
–	1 • 1	5
	6 • 1	5

b)

	~~5~~ 6 • 11	5
–	3 • 8	
	2 • 3	5

d)

	2	4 • ~~4~~ 3	10
–		3 • 1	2
	2	1 • 2	8

4 Use the column method to work out the subtractions.

a) 13.59 – 1.82

		2	
	1	~~8~~ 5 •	9
–		1 • 8	2
	1	1 • 7	7

c) 5.6 – 1.39

	5 •	~~6~~ 5	10
–	1 •	3	9
	4 •	2	1

b) 73.84 – 9.2

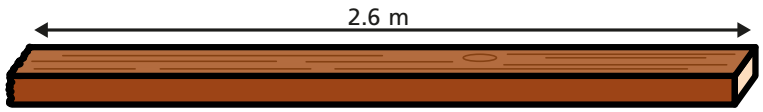
		6		
	~~7~~	13 •	8	4
–		9 •	2	
	6	4 •	6	4

d) 18.2 – 3.64

			11	
	1	~~8~~ 7 •	~~2~~ 1	10
–		3 •	6	4
	1	4 •	5	6

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.

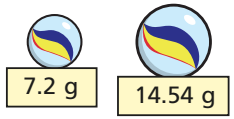
She now has 0.3 m of the plank remaining.

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.

1 3.4 – 2.5 9 = 10.81

8 Use the column method to work out the subtractions.

a) 14 – 2.7

	1	$\overset{3}{4}$	.^{1}0			
−		2	. 7			
	1	1	. 3			

d) 26 – 3.91

	2	$\overset{5}{6}$	.^{9}0			
−		3	. 9	1		
	2	2	. 0	9		

b) 8 – 3.65

	$\overset{7}{8}$	.^{9}0				
−	3	. 6	5			
	4	. 3	5			

e) 25 – 3.842

	2	$\overset{4}{5}$	.^{9}0	^{9}0		
−		3	. 8	4	2	
	2	1	. 1	5	8	

c) 20 – 2.85

	$^{1}\cancel{2}$	.^{9}0	^{9}0			
−		2	. 8	5		
	1	7	. 1	5		

f) 90 – 0.821

	$^{8}\cancel{9}$	.^{9}0	^{9}0			
−		0	. 8	2	1	
	8	9	. 1	7	9	