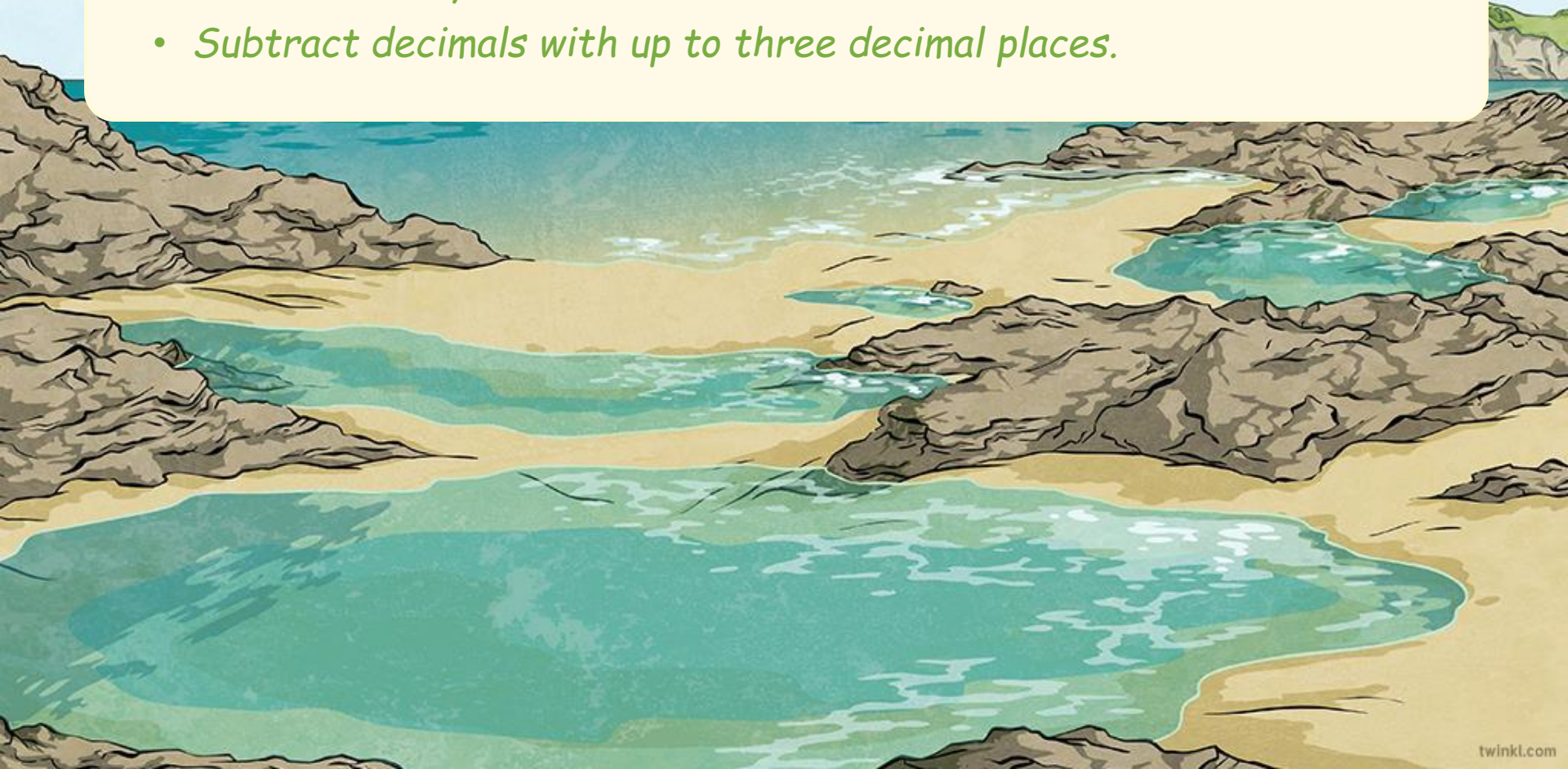


WALT subtract decimals within 1.

- *WILF:*
- *Use your place value columns to help you.*
- *Count carefully*
- *Subtract decimals with up to three decimal places.*



Just like adding decimals, we subtract them the same way that we would if they were whole numbers.

- 1) We line them up with the biggest number on top, and the smallest number on the bottom.
- 2) We make sure the decimal point is in the same place on each level, and that you have 0 as a placeholder if needed.
- 3) Subtract from the right to the left, exchanging if we need to.

$$0.345 - 0.15 = 0.195$$

$$\begin{array}{r} 2 \leftarrow \\ 0. \overset{1}{\cancel{3}} 4 5 \end{array}$$

Exchanged 1 tenth for 10 hundredths.

$$\begin{array}{r} 0. 1 5 0 \\ \hline 0. 1 9 5 \end{array}$$

There is nothing in the thousandths column, so 0 is added as a place holder.

If you get stuck, add your place value columns.

Ones | Tenths | Hundredths | Thousandths

.



Subtracting Decimals within 1

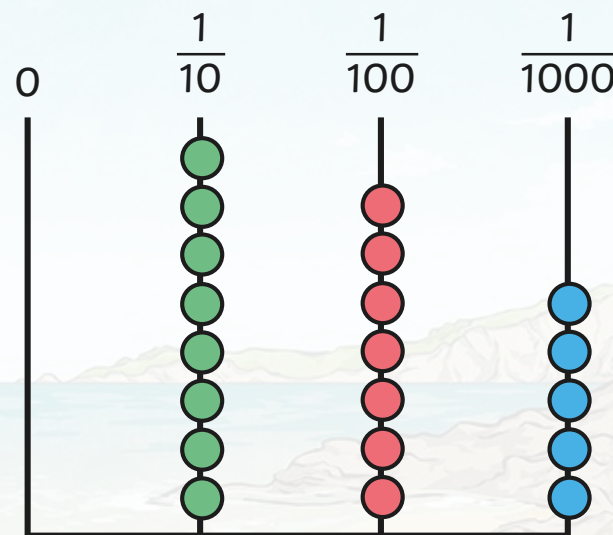


You don't always need to use the written method - you can also do subtraction mentally.

Your starting number is the decimal number shown on the abacus.

Follow the clues in the maze, answering each question as you go.

Use place value columns if you get stuck.



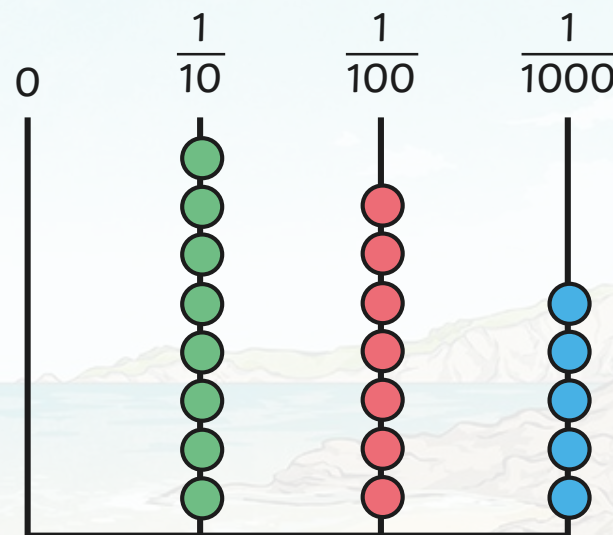
Starting Number: 0.875	a) Four-hundredths less	b) Take away 0.003
e) What do I need to subtract to make the decimal number equivalent to $\frac{1}{10}$?	d) 3 tenths less	c) Subtract 0.201

Subtracting Decimals within 1



Your starting number is the decimal number shown on the abacus.

Follow the clues in the maze, answering each question as you go.



Starting Number: 0.875	a) Four-hundredths less 0.835	b) Take away 0.003 0.832
e) What do I need to subtract to make the decimal number equivalent to $\frac{1}{10}$? 0.231	d) 3 tenths less 0.331	c) Subtract 0.201 0.631

Subtracting Decimals within 1



Answer these calculations using the most efficient (quickest and easiest) method. How did you work each one out?

$$0.732 - 0.501 =$$

$$0.53 - 0.214 =$$

$$0.607 - 0.126 =$$

$$0.6 - 0.134 =$$



Subtracting Decimals within 1



Answer these calculations using the most efficient method. How did you work each one out?

$$0.732 - 0.501 = 0.231$$

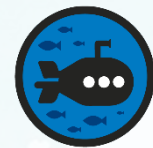
$$0.53 - 0.214 = 0.316$$

$$0.607 - 0.126 = 0.481$$

$$0.6 - 0.134 = 0.466$$



Subtracting Decimals within 1



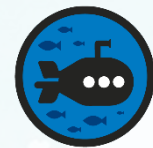
Gareth has completed his written method but has made a mistake. What has he done wrong? Explain and complete the calculation correctly.

	0	•	6	7	3
-	0	•	2	4	5
	0	•	4	3	2

Tip: try doing the calculation yourself to reveal his mistakes.



Subtracting Decimals within 1



Gareth has completed his written method but has made a mistake. What has he done wrong? Explain and complete the calculation correctly.

	0	•	6	7	3
-	0	•	2	4	5
	0	•	4	3	2

Gareth has not subtracted the thousandths correctly. He should have regrouped a hundredth to enable him to complete 13 thousandths – 5 thousandths.

0.428 is the correct answer.



Subtracting Decimals within 1

Deeper



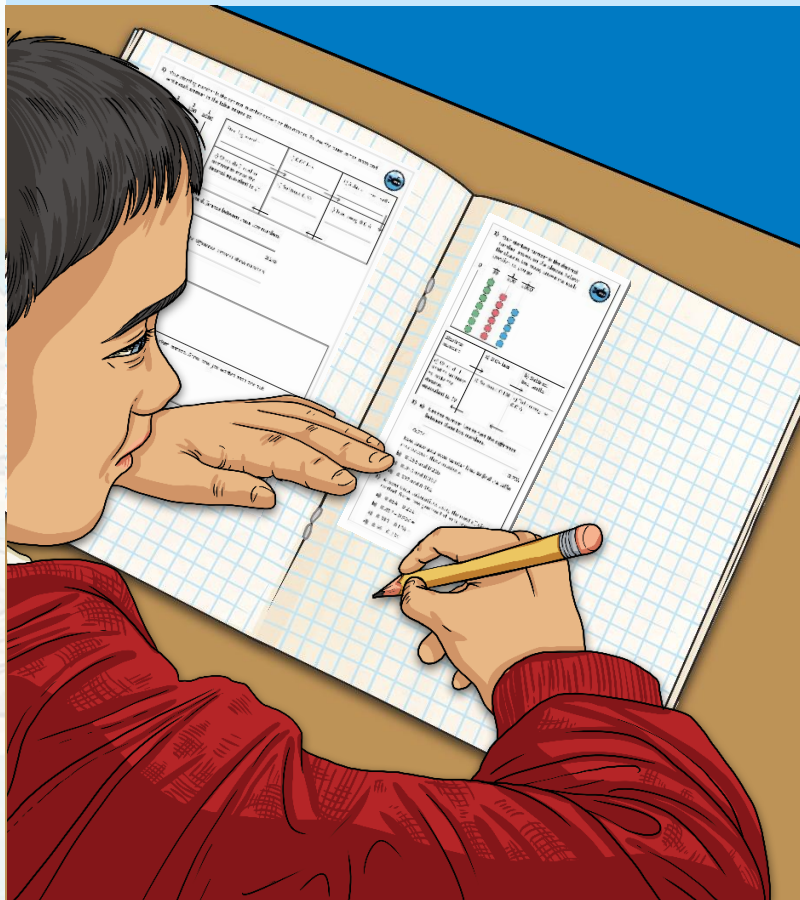
Here is part of a calculation. Complete the subtraction so that the answer has three decimal places.

	0	•	6	7	3
-	0	•	?	?	?
	?	•	?	?	?



WALT Subtract Decimals within 1

Now have a go at the activity. 'Week 3 – Maths – Monday Activity'



1) Find 4 p... and carry

2) Using on

3) Ruth has

4) Jake has George as

1) Gareth has and carry

2) Here is p

3) Jenny is following

4) Jake has George as

1) Your starting number is the decimal number shown on the abacus. Follow the clues in the maze and write each answer in the table as you go.

0 $\frac{1}{10}$ $\frac{1}{100}$ $\frac{1}{1000}$

Starting number:	a) 0.04 less	b) Subtract two tenths
e) What do I need to subtract to make the decimal equivalent to $\frac{1}{4}$?	d) Subtract 0.101	c) Take away 0.014

2) a) Use the number line to find the difference between these two numbers.

0.236 0.276

Draw your own number lines to find the difference between these numbers:

b) 0.156 and 0.205 _____

c) 0.345 and 0.397 _____

d) 0.507 and 0.586 _____

3) Answer these calculations using the most efficient method. Show how you worked each one out.

a) $0.654 - 0.231 =$ _____

b) $0.852 - 0.907 =$ _____

c) $0.595 - 0.136 =$ _____

d) $0.36 - 0.134 =$ _____