



What should I already know?

- How to count up and down in hundredths; recognise that hundredths arise when dividing an Object by one hundred and dividing tenths by ten.
- How to recognise and write decimal equivalents of any number of tenths or hundredths
- How to find the effect of dividing a one- or two-digit number by 10 and 100, identifying the
- The value of the digits in the answer as ones, tenths and hundredths
- How to round decimals with one decimal place to the nearest whole number
- How to compare numbers with the same number of decimal places up to two decimal places
- How to solve simple measure and money problems involving fractions and decimals to two decimal places.

What will I know by the end of the unit?

- How to read, write, order and compare numbers with up to three decimal places.
- How to recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
- How to round decimals with two decimal places to the nearest whole number and to one decimal place.
- How to recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.
- How to solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25
- How to solve problems involving number up to three decimal places.

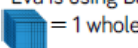



Vocabulary

Place value	Fraction	Equivalence	Number line
Digit	Tenths	Rounding	Per cent
Decimal	Hundredths	Nearest	Percentage
value	Thousandths	Whole number	Denominator
Partitioning	Mixed number		

Investigate/Homework tasks

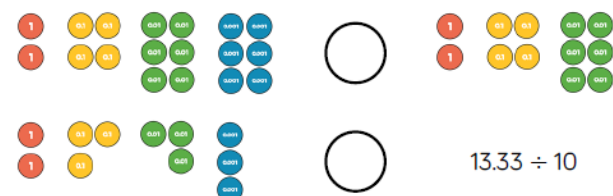
- Homework will be set by your teacher using google classroom
- You should complete at least 30 minutes of maths tasks on Maths Whizz (not games). Please attend help sessions if you do not have access to the internet at home
- Additional work you could complete:
 - Find out more about the meaning of the vocabulary list using <http://www.amathsdictionaryforkids.com/>
- To challenge yourself: Answer the key questions to deepen your knowledge

Diagram

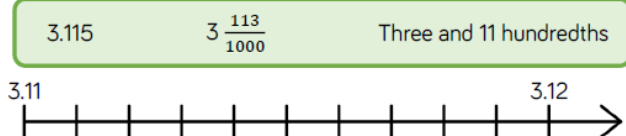
Eva is using Base 10 to represent decimals.
 = 1 whole  = 1 tenth  = 1 hundredth  = 1 thousandth



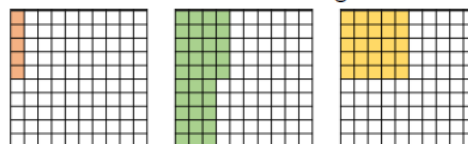
Use <, > or = to make the statements correct.



Place the numbers in ascending order on the number line.

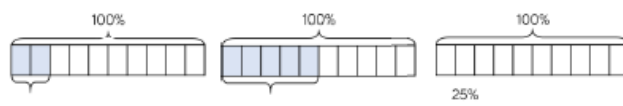


Complete the sentence stem for each diagram.



There are ____ parts per hundred shaded. This is ____%

Complete the bar models.



Key skills/Timeline/Topic Questions

When do we need to use zero as a place holder?

How can we partition decimal numbers in different ways?

How would you convert a fraction to a decimal?

How can you prove that the decimal ____ and the fraction ____ are the same?

In the number 1.34 what does the 1 represent, what does the 3 represent, what does the 4 represent?

Can we represent this number in a different way, and another, and another?

If 4 tenths = 0.4, 4 hundredths = 0.04, what is 4 thousandths equal to?

Where would 2.015 be positioned on the number line? How many thousandths do I have? How do I record this as a mixed number?

When rounding to the nearest one decimal place, how many digits will there be after the decimal point?

What's the same and what's different about percentages, decimals and fractions?

Can you convert any percentage into a decimal and a fraction?

Which is closer to 100%, 45 or 50%? How do you know?