

Year 5 Maths - Summer Term - Decimals and percentages

Decimals vocabulary	
Tenths (y3)	Equivalent (y2)
decimal place (y4)	decimal point (y4)
Hundredths (y4)	Rounding (y4)
New vocabulary	
mixed number	thousandths
percentage	percent

Rounding decimals to the nearest whole number and one decimal place



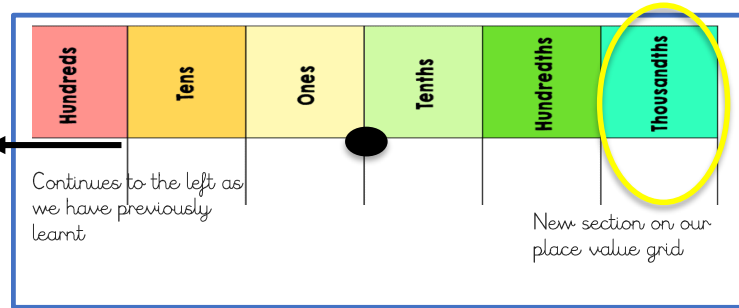
If the hundredths digit is 1, 2, 3 or 4, we round down to the nearest tenth.

If the hundredths digit is 5, 6, 7, 8 or 9, we round up to the nearest tenth.



If the tenths digit is 1, 2, 3 or 4, we round down to the nearest whole number.

If the tenths digit is 5, 6, 7, 8 or 9, we round up to the nearest whole number.



Percent %

This is the symbol for percent %

Percent means 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.

Decimal numbers can be read as fractions

$$0.71 = \frac{71}{100}$$

$$0.37 = \frac{37}{100}$$

Fraction & decimal equivalence

= $\frac{1}{2}$ = 0.5

= $\frac{1}{4}$ = 0.25

= $\frac{3}{4}$ = 0.75

= $\frac{1}{10}$ = 0.1

= 1 = 1 = 100%

= $\frac{1}{2}$ = 0.5 = 50%

= $\frac{1}{4}$ = 0.25 = 25%

We can use this for other fractions when the denominator is a multiple of 25.

= $\frac{1}{5}$ = 0.2 = 20%

We then also know 2/5, 3/5 and 4/5 equivalence.

= $\frac{1}{10}$ = 0.1 = 10%

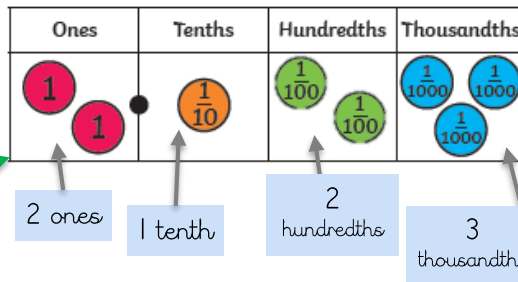
We can then also know the equivalence of other fractions with a denominator of a multiple of 10

Ordering and comparing decimals

When ordering and comparing we read the decimal number first. Always look at the largest place value column first. If they are different, order or compare using them.

If they are the same, we need to look further, so move one place to the right and try to order/compare again from there. Repeat as needed.

This number has...



We read it at 2.123
Two point one, two, three

Percentage, fraction, decimals

They can be equivalents of the same value. For example:

