Previously learned vocabulary

Decimal (y4)

Hundredth (y4)

Thousandth (y5)

Decimal places (y4)

New vocabulary (learned in y6)

Multi-step

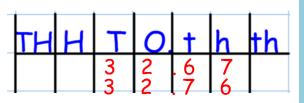
Long division

Interval

Spring Term - Y6 Maths - Decimals



Compare and order decimals



Use of place value knowledge to compare and order decimal numbers

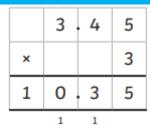
Round any number to a required degree of accuracy

Addition and subtraction with decimals

187.65 + 25.3=

We set out the addition like this using place value knowledge to help. Make sure the decimal points are lined up!

Multiplying and dividing decimals by integers





Round 432.67<u>4</u> to 2 dp

7 is the place, next door is 4 It is less than 5 so 7 stays as it is and we eliminate the 4!

The answer would be 432.67

1 8 7.6 5 Top Tip! Add in place holders to empty spaces

Find the place
Look next door
5 or more, raise the score
4 or less, let it rest
Look to the right...
Eliminate the digits!

Multiplying and dividing decimals by 10, 100 and 1000

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
		x	2	0	8	
		2	0	8		
			2 .	0	8	
Thousands						
rnousunus	Hundreds	Tens	Ones	tenths	hundredths	thousandths
Thousands		Tens 4	Ones 3	tenths 5	hundredths	thousandths
4	× 100				hundredths	thousandths

To multiply a number by 10, 100 or 1,000, move the digits 1, 2 or 3 places to the left. Use placeholders (0) to fill empty columns.

To divide a number by 10, 100 or 1,000, move the digits 1, 2 or 3 places to the right. Use placeholders (0) to fill empty columns.

$2.3 \times 100 = 230$

2.3

23.0 (one place to the left)

230.0 (two places to the left)

Tip: the decimal point must not move.

14 ÷ 1.000 = 0.014

14.0 (write the whole number with a decimal point and placeholder)

1.4 (one place to the right)

0.14 (two places to the right)

0.014 (three places to the right)

Tip: the decimal point must not move.