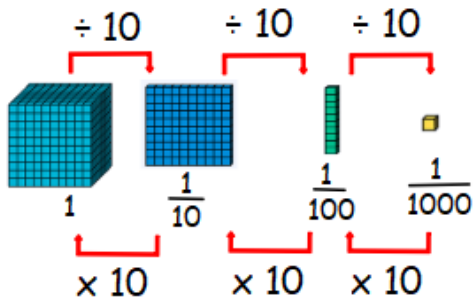
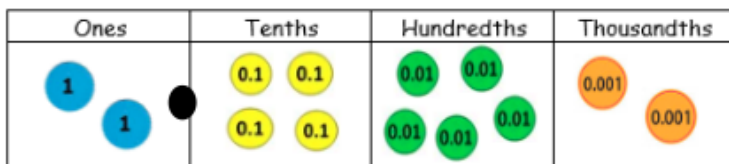
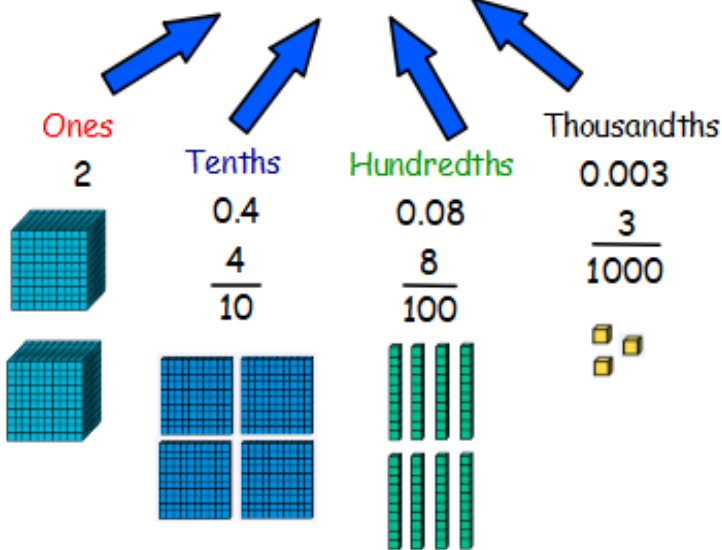


Year 6 Decimals

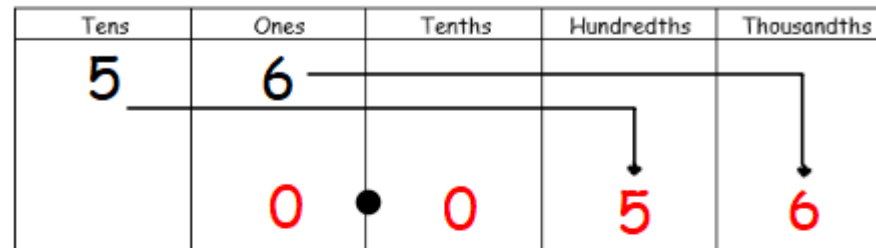
Tenths, Hundredths and Thousandths

2.483

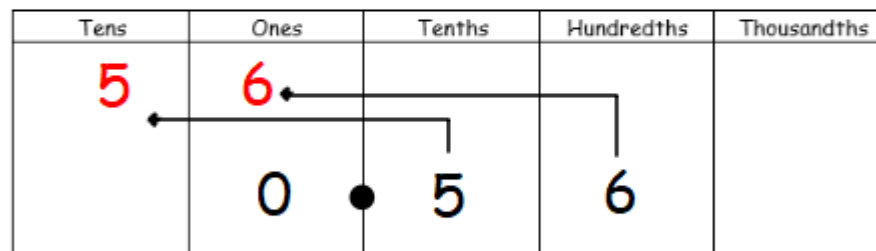


Multiplying and Dividing by 10, 100 and 1000

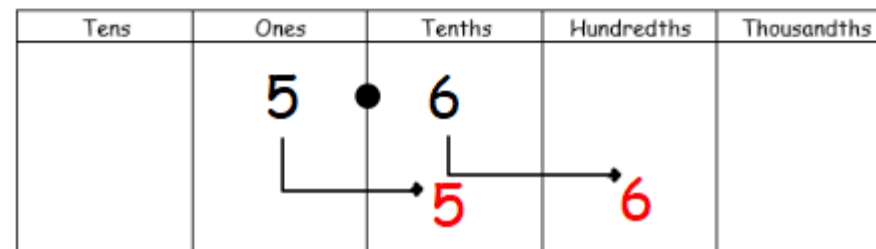
$$56 \div 1000 = 0.056$$



$$0.56 \times 100 = 56$$



$$5.6 \div 10 = 0.56$$



When multiplying or dividing by multiples of ten, the amount of zeros tells you how many places you need to move left (x) or right (÷).



Key Vocabulary

- half
- quarter
- third
- fifth
- three quarters
- equal parts
- tenths
- hundredths
- thousandths
- decimal
- equivalence
- convert
- numerator
- denominator
- decimal point
- rounding
- per cent %
- complements

Year 6 Decimals

Converting Fractions to Decimals

$$\frac{3}{20} \xrightarrow{\times 5} \frac{15}{100} = 0.15$$

$$\frac{7}{25} \xrightarrow{\times 4} \frac{28}{100} = 0.28$$

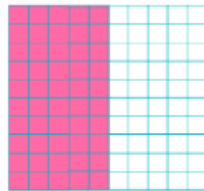
$$\frac{16}{200} \xrightarrow{\div 2} \frac{8}{100} = 0.08$$

If the denominator is not a factor of 100, you need to divide the numerator by the denominator.

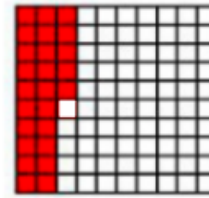
$$\frac{5}{8} = 5 \div 8$$

	0	.	6	2	5
8	5	.	0	2	0

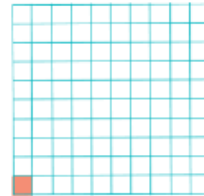
Decimal Fraction Equivalents



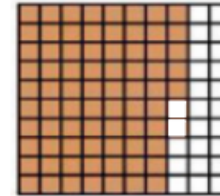
$$\frac{5}{10} = \frac{50}{100} = 0.5$$



$$\frac{25}{100} = \frac{1}{4} = 0.25$$



$$\frac{1}{100} = 0.01$$



$$\frac{75}{100} = \frac{3}{4} = 0.75$$

$\frac{1}{3} = 0.333$	$\frac{1}{5} = 0.2$	$\frac{1}{1000} = 0.001$
$\frac{2}{3} = 0.666$	$\frac{1}{8} = 0.125$	

Multiplying Decimals by Integers

Using short multiplication

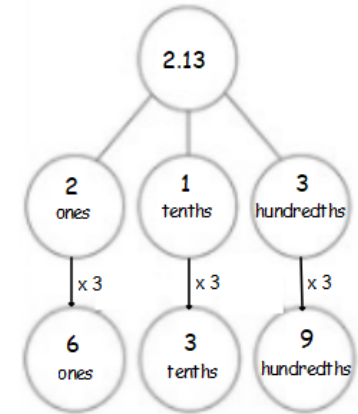
		2	.	6	2
x				5	
	1	3	.	1	0
		3		1	

Remember to put the decimal point in!



Using part whole method

$$2.13 \times 3 = 6.39$$



Dividing Decimals by Integers

Using short division

$$6.12 \div 4$$

	1	.	5	3
4	6	.	2	1
			2	1

Remember to put the decimal point in!



Using part whole method

$$9.63 \div 3 = 3.21$$

