Vocabulary

Position of the digits to the

decimal

Place Value

Tens	Ones	• tenths	hundredths	thousandths	
	000	0000	001	0.001 0.001 0.001	
	3	10	100	6 1000	1
	3	0.4	0.02	0.006	= 3.426

Converting Fractions to Decimals

×5			
7 =	35 100	or	0.35
×5	7		

Make an equivalent fraction with a denominator of 100 (by multiplying or dividing) to convert into a decimal number

Some Key Facts

0.5

0.25

0.75

0.2

0.1

= 0.01

= 0.001

100

1000

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

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

$$\begin{array}{ccc} \underline{1} & = & \underline{20} \\ 5 & & 100 \end{array}$$

$$1 = 10$$
 $10 = 100$

right of a decimal point place Represents a fraction of a whole number A number with 2 digits after 2 decimal the decimal point places 2dp A number with 3 digits after 3 decimal places the decimal point 3dp decimal A fraction with a denominator of fraction 10,100,1,000 ... It can be written with a decimal point **One Tenth** 1/10 or 0.1 One 1/100 or 0.01 Hundredth One

1/1000 or 0.001

1 whole = 10 tenths

Thousandth

1 tenth = 10 hundredths

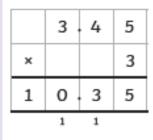
1 hundredth = 10 thousandths

Decimals

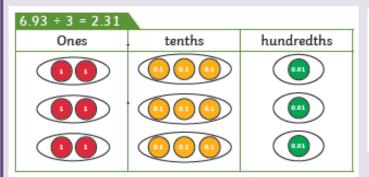
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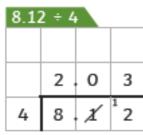
Multiplying a decimal by an integer





Dividing a decimal by an integer





Multiplying and Dividing by 10, 100 and 1,000



Thousands	Hundreds	Tens	Ones	1 10	1 100	<u>1</u> 1000	
			4	• 3	7		
		4	3	• 7			X 10
		4	3	• 7			
	4	3	7	•			X 100
		4	3	• 7			
4	3	7	0	•			X 1,000

Dividing by powers of 10

Thousands	Hundreds	Tens	Ones	10 10	<u>1</u> 100	<u>1</u> 1000	
		2	9	•			
			2	9			÷ 10
		2	9	•			
			0	2	9		÷ 100
		2	9	•			. 4 000
			0	0	2	9	÷ 1,000