SUBJECT: Maths

UNIT: Year 7 Number

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Key Concept

Mixed numbers

These are made up of a whole number and a fraction.

$$4\frac{3}{5}$$

$$= \frac{4 \times 5 + 3}{5}$$

$$= \frac{23}{5}$$

Key Concept

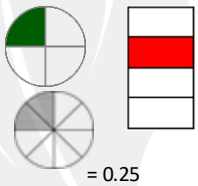
FDP Equivalence

F	D	P
$\frac{1}{100}$	0.01	1%
$\frac{1}{10}$	0.1	10%
$\frac{1}{5}$	0.2	20%
$\frac{1}{4}$	0.25	25%
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75%

Key Concept

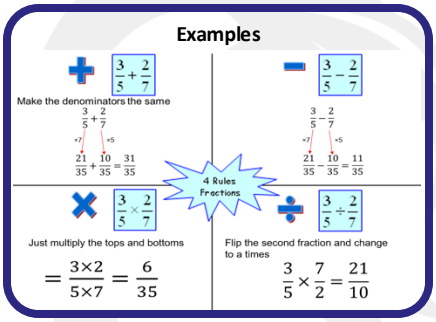
$$\frac{1}{4}$$

$$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16}$$



= 0.25

Examples

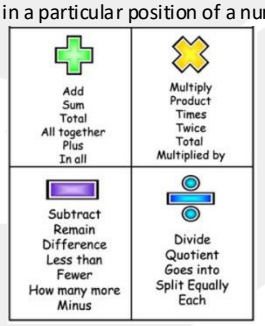


Key Words

Equivalence: Two fractions are equivalent if one is a multiple of the other.
Simplify: Cancel a fraction down to give the smallest numbers possible.

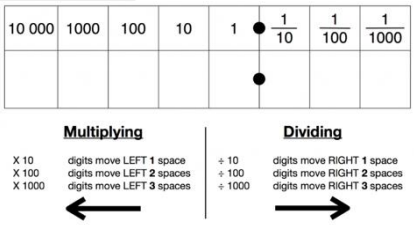
Key Words

Place Value: The value a digit takes when placed in a particular position of a number.



Key Concept

Multiply/Divide by powers of 10



Key Concept

Factors:
Find these in pairs
12
1, 12
2, 6
3, 4

Multiples:
Start with the number itself
7 – 7, 14, 21, 28, ...

SUBJECT: Maths

UNIT: Year 7 Algebra

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Key Concept

Inverse Operations

Operation	Inverse
+	—
—	+
×	÷
÷	×
x^2	$\sqrt{x}$

Key Concept

Expanding Brackets

To multiply out brackets, we use the grid method.

$5(x + 9)$

x	x	+ 9
5	$5x$	+ 45

$=5x + 45$

7x(3x-2)

x	$3x$	-2
$7x$	$35x$	-14

$=35x - 14$

Key Concept

Collecting Like Terms

$5x + 9 + 2x$

$5x + 2x = 7x$

$9 = 9$

$7x + 9$

Key Words

Unknown: A letter which represents a number we do not know the value of.
Terms: The numbers and letters in the expression or equation.
Inverse: The operation which will do the opposite.