

Year 7 Autumn 1

KEYWORDS:

Addition (+) Add one number to another. "Find the **sum**..."

Subtraction (-) Take one number away from another. "Find the **difference**..."

Integer A whole number e.g. -3, 0, 92

Decimal A number with a decimal point e.g. 3.7, -24.07

Perimeter The distance around the outside of a shape

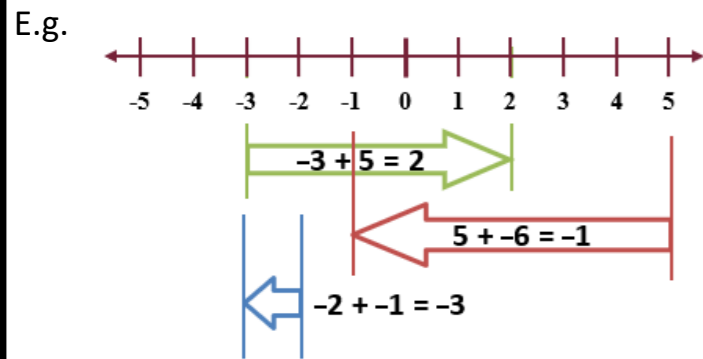
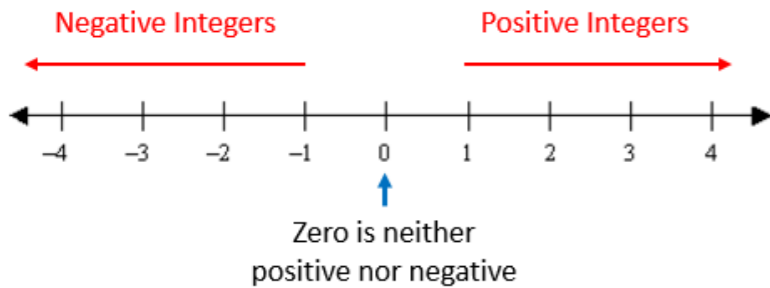
Numerator The top number of a fraction

Denominator The bottom number of a fraction

Term A single number or letter e.g. 3, 4ab

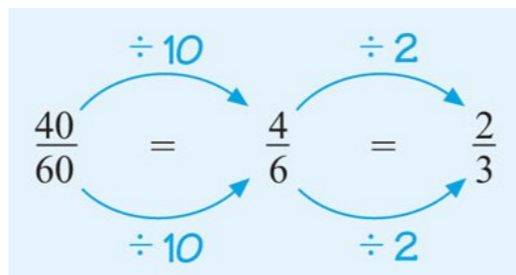
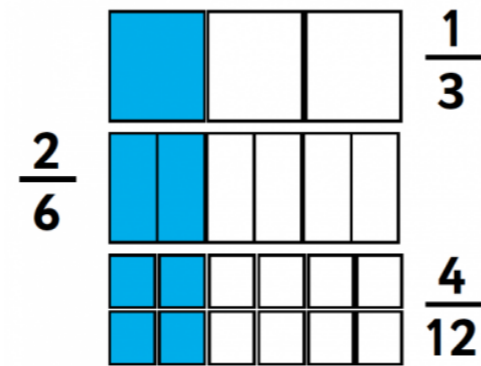
Expression A collection of terms e.g. $3a + 2bc$

Negative Numbers



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Equivalent Fractions

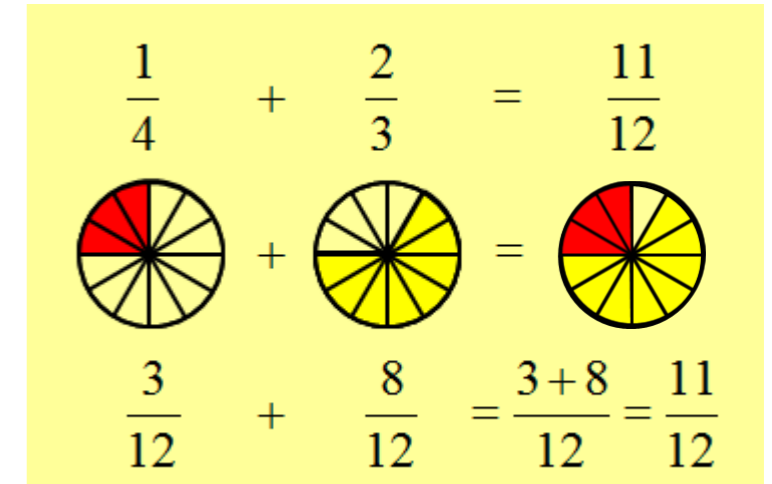


- ◆ Simplify
- ◆ Write the fraction in its simplest form

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Adding and Subtracting Fractions

The denominators of each fraction need to be the **SAME**.



Find equivalent fractions with the same denominator.

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Collecting Like Terms (Simplifying Expressions)

E.g. $2a + 3a = 5a$

$b + 3b - 2b = 2b$

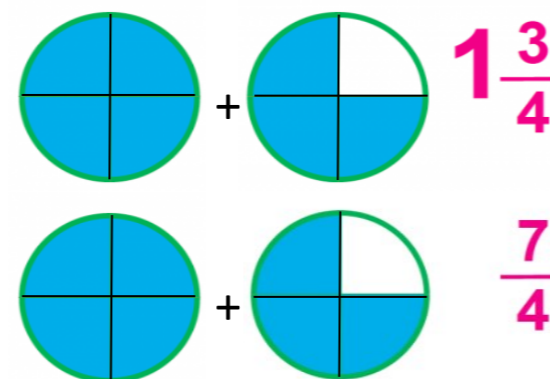
$3x^2y + 7x^2y - 2x^2y = 8x^2y$

E.g. $4a + 3c - 2a + 5c = 2a + 8c$

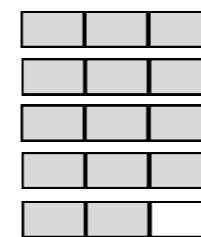
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Remember - the sign belongs to the term that follows. Use shapes or colours to show the 'like' terms.

Mixed Numbers and Improper fractions



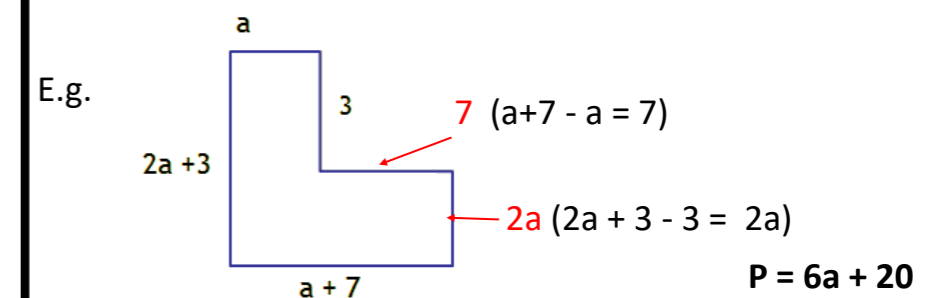
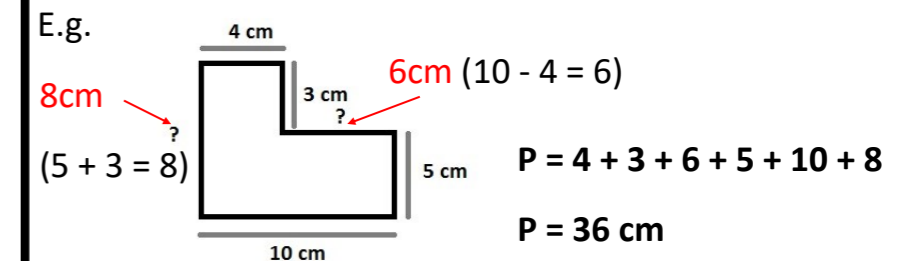
E.g. $\frac{14}{3} = 14 \div 3 = 4 \frac{2}{3}$



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Perimeter

To find the perimeter of ANY shape, add up the lengths of **all** the sides (even the missing ones!)



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