Algebra and Numbers

Inequalities

Do not reverse the signs when:

- Adding/Subtracting both sides by any positive or negative number

  Example: $x - 5 < 8$ $x + 3 \geq 7$

  $x - 5 + 5 < 8 + 5$ $x + 3 - 3 \geq 7 - 3$

  $x < 13$ $x \geq 4$
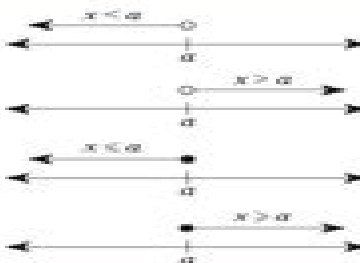
- Multiplying/Dividing both sides by a **positive** number

  Example: $3x < -18$ (dividing both sides by positive 3)

  $x < -6$ (sign remains unchanged)

Reverse the signs when:

- Multiplying/Dividing both sides by a **negative** number

  Example: $-2x < 10$ (dividing both sides by negative 2)

  $x > -5$ (sign is reversed)

Expansion and Factorisation

Special Products

$$\left.\begin{array}{l}(a + b)^2 = a^2 + 2ab + b^2 \\ (a - b)^2 = a^2 - 2ab + b^2\end{array}\right\} \text{ perfect squares}$$

$$(a + b)(a - b) = a^2 - b^2 \} \text{ difference of two squares}$$

Methods of Factorisation

Extracting Common Factors

Example:
$3ax + 6ay$
$= 3a(x + 2y)$

Grouping

Example:
$6ap + 2aq + 3px + qx$
$= 2a(3p + q) + x(3p + q)$
$= (2a + x)(3p + q)$

Using Special Products

Example:
$4p^2 - q^2 = (2p)^2 - q^2$
$= (2p + q)(2p - q)$

Multiplication Frame

Example:
$3x^2 - 7x - 6$
$= (3x + 2)(x - 3)$

	$3x$	$+2$
x	$3x^2$	$2x$
-3	$-9x$	-6

Maps and Scales

Map Scale

$1 \quad : \quad r \quad$ or $\quad \dfrac{1}{r}$

square root ↺ **Area Scale** ↻ square

$1 \quad : \quad r^2 \quad$ or $\quad \dfrac{1}{r^2}$

Direct Proportion

$y = kx$

If y is directly proportional to x, then

- $y = kx$
- $\dfrac{y}{x}$ is a constant

Inverse Proportion

$y = \dfrac{k}{x}$

If y is inversely proportional to x, then

- $y = \dfrac{k}{x}$
- xy is a constant

Algebraic Manipulation

Multiplication and Division of Algebraic Fractions

- $\dfrac{P}{Q} \times \dfrac{R}{S} = \dfrac{PR}{QS}$
- $\dfrac{P}{Q} \div \dfrac{R}{S} = \dfrac{P}{Q} \times \dfrac{S}{R} = \dfrac{PS}{QR}$

Addition and Subtraction of Algebraic Fractions

Example: $\dfrac{3}{4x} - \dfrac{2}{y + 1}$

- LCM of denominator $= 4x(y + 1)$

  $\Rightarrow \dfrac{3}{4x} - \dfrac{2}{y + 1} = \dfrac{3(y + 1)}{4x(y + 1)} - \dfrac{2(4x)}{4x(y + 1)}$

  (convert denominator to LCM)

  $= \dfrac{3y + 3 - 8x}{4x(y + 1)}$

Geometry

Congruence

Two figures are **congruent** if they have the same shape and size. Hence

- all corresponding sides are equal,
- all corresponding angles are equal.

$\triangle ABC \equiv \triangle PQR$

Similarity

Two figures are **similar** if they have the same shape but not necessarily the same size. Hence

- all corresponding angles are equal,
- all the ratios of their corresponding sides are equal.

We have $\dfrac{AB}{PQ} = \dfrac{AC}{PR} = \dfrac{BC}{QR}$

$\triangle ABC$ is similar to $\triangle PQR$.

The **scale factor** of the enlargement above is given by

$$\text{Scale factor} = \dfrac{\text{image length}}{\text{corresponding object length}}$$

$$= \dfrac{PQ}{AB} \left(= \dfrac{PR}{AC} = \dfrac{QR}{BC} \right)$$

Pythagoras' Theorem

In $\triangle ABC$, if $\angle ACB = 90°$, then

$$a^2 + b^2 = c^2.$$

Trigonometry

$$\tan \theta = \dfrac{\text{opposite}}{\text{adjacent}} = \dfrac{o}{a} \quad \text{(T O A)}$$

$$\cos \theta = \dfrac{\text{adjacent}}{\text{hypotenuse}} = \dfrac{a}{h} \quad \text{(C A H)}$$

$$\sin \theta = \dfrac{\text{opposite}}{\text{hypotenuse}} = \dfrac{o}{h} \quad \text{(S O H)}$$

opposite (o)   hypotenuse (h)   adjacent (a)

Mensuration

Figure	Volume	Surface area
Pyramid lateral faces / base	Volume $= \dfrac{1}{3} \times$ Base area $\times$ Height	Total surface area $=$ Total area of all faces (Base area $+$ lateral faces)
Cone curved surface area / l (slant height) / height	Volume $= \dfrac{1}{3} \times$ Base area $\times$ Height $= \dfrac{1}{3}\pi r^2 h$	Curved surface area $= \pi r l$ Total surface area $= \pi r l + \pi r^2$
Sphere	Volume $= \dfrac{4}{3}\pi r^3$	Surface area $= 4\pi r^2$

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Jicheng Xie

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