

[illegible]

### Common Algebraic Identities

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

$$(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

**Key observations to remember:**

- Always ensure that the order of terms in the binomial is maintained.
- For the square of a binomial, the middle term is always  $\pm 2ab$ .
- For the cube of a binomial, the middle terms are  $\pm 3a^2b$  and  $\pm 3ab^2$ .

$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$$

Triangle Rule

$$(a+b+c)^3 = a^3 + b^3 + c^3 + 3a^2b + 3ab^2 + 3a^2c + 3ac^2 + 3b^2c + 3bc^2 + 6abc$$

Triangle Rule

**Important Notes:**

- These identities are only valid for algebraic expressions.
- Always check the signs in the binomial before applying the identity.
- Remember to expand fully and simplify the result.
- These identities are useful for simplifying complex algebraic expressions.

Identity	Application
$(a+b)^2 = a^2 + 2ab + b^2$	Used to expand binomials squared.
$(a-b)^2 = a^2 - 2ab + b^2$	Used to expand binomials squared with a negative sign.
$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$	Used to expand trinomials squared.

[illegible]

	<p>• <b>Self-awareness</b> – ability to be aware of one's own emotions, thoughts, and feelings</p> <p>• <b>Empathy</b> – ability to understand and share the feelings of others</p> <p>• <b>Emotional intelligence</b> – ability to recognize, understand, and manage one's own emotions and the emotions of others</p>	<p>• <b>Emotional intelligence</b> – ability to recognize, understand, and manage one's own emotions and the emotions of others</p> <p>• <b>Self-awareness</b> – ability to be aware of one's own emotions, thoughts, and feelings</p> <p>• <b>Empathy</b> – ability to understand and share the feelings of others</p>	<p>• <b>Self-awareness</b> – ability to be aware of one's own emotions, thoughts, and feelings</p> <p>• <b>Empathy</b> – ability to understand and share the feelings of others</p> <p>• <b>Emotional intelligence</b> – ability to recognize, understand, and manage one's own emotions and the emotions of others</p>
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[illegible]

- **EWING** – evaluates the strength of the correlation between two variables
  - EWING is a coefficient between -1 and 1
    - EWING = 0 means a strong negative correlation
    - EWING = 1 means a strong positive correlation
    - EWING = 0 means a strong no correlation
  - $\text{EWING} = \frac{1}{n} \sum_{i=1}^n x_i y_i$       $x_i$  = first variable  
 $y_i$  = second variable
  - EWING is used to find relationship between variables and give them a rank order
- **Pearson** – tests for linear correlation

## Measures of Central Tendency/Averages

Mode - most common value  
 Median - 50% of data with the highest frequency

**Median**  
 Discrete data -  $\frac{n+1}{2}$ th value  
 Continuous data with frequency -  $\frac{n+1}{2}$ th value

**To estimate median from grouped data**

- Find cumulative frequency of frequency column until you get to 50% value and
- Find the class interval with the median
- Find how many more values you require from class to get the median
- Divide that number by the frequency for that class
- Multiply that result by the class width
- Add your answer to the lower bound for the class interval

Estimated median =  $L + \frac{\frac{n}{2} - F}{f} \times w$  where

- $L$  = Lower boundary of the class containing the median
- $n$  = Total number of values
- $F$  = Cumulative frequency of the class interval below the median
- $f$  = Frequency of the median class interval
- $w$  = width of the class interval

**Mean**  
 Discrete data -  $\bar{x} = \frac{\sum x}{n}$   $\sum x$  = sum of all values  
 $n$  = number of values

Continuous data -  $\bar{x} = \frac{\sum fx}{\sum f}$   $f$  = frequency  
 $x$  = first column (class midpoints for grouped data)

**Weighted Mean** - for data that has different number of values or weights for each group

Weighted Mean =  $\frac{\sum x \times w}{\sum w}$

**Geometric Mean** - Value  $G$  such that  $G^n = x_1 \times x_2 \times \dots \times x_n$

# Gcse Statistics Revision Guide For Dummies

**Jayne Kranat, Brian Houseden, James  
Nicholson**



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