

**Paper Reference 1ST0/2H**  
**Pearson Edexcel**  
**Level 1/Level 2 GCSE (9–1)**

**Statistics**  
**PAPER 2**  
**Higher Tier**  
**(Calculator)**

**Monday 17 June 2024 – Afternoon**

**Formulae Pages**

**DO NOT RETURN THIS FORMULAE  
BOOKLET WITH THE QUESTION PAPER.**

**Q75439A**

## Higher Tier Formulae

$$\text{Skew} = \frac{3(\text{mean} - \text{median})}{\text{standard deviation}}$$

$$\text{Standard deviation} = \sqrt{\frac{1}{n} \sum (x - \bar{x})^2}$$

An alternative formula for standard deviation is

$$\text{standard deviation} = \sqrt{\frac{\sum x^2}{n} - \left(\frac{\sum x}{n}\right)^2}$$

Spearman's rank correlation coefficient

$$r_s = 1 - \frac{6 \sum d^2}{n(n^2 - 1)}$$

Rates of change

$$(\text{e.g. Crude birth rate} = \frac{\text{number of births} \times 1000}{\text{total population}})$$