Arithmetic & Geometric Means

Arithmetic Mean(average)

$$AM = \frac{a_1 + a_2 + a_3 + \ldots + a_n}{n}$$

Geometric Mean

$$GM = \sqrt[n]{a_1 a_2 a_3 \ldots a_n}$$

$e.g.$ Find the AM and GM of 4 and 25

$$AM = \frac{25 + 4}{2}$$

$$= \frac{29}{2}$$

$$GM = \sqrt{25 \times 4}$$

$$= \sqrt{100}$$

$$= 10$$

Exercise 6F; 1ace etc, 2bd, 4, 7, 8ade, 10, 13, 19*