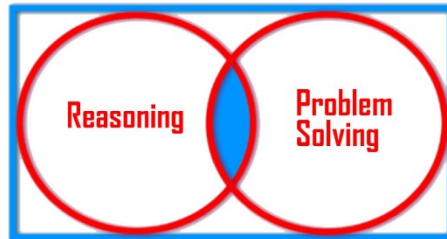


Year 1 (AS)
Binomial Expansion
(Sample Questions)

The Marks shown are for guidance purposes only



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Round all decimals to 3 significant figures where applicable

Binomial Series:

$$(a + b)^n = a^n + \binom{n}{1} a^{n-1}b + \binom{n}{2} a^{n-2}b^2 + \binom{n}{r} a^{n-r}b^r + \dots + b^n$$

For $(n \in \mathbb{N})$

$$\text{Where } \binom{n}{r} = {}^n C_r = \frac{n!}{r!(n-r)!}$$

