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Working in minute units, 2 hours=120 minutes. Hence 25 minutes is $\frac{25}{120}$ ths of 2 hours. By cancelling, $\frac{25}{120} = \frac{5}{24}$ Expressing $\frac{5}{24}$ as a decimal fraction gives 0.2083. Multiplying by 100 to convert the decimal fraction to a percentage gives: $0.2083 \times 100 = 20.83\%$. Thus 25 minutes is 21% of 2 hours, correct to the nearest 1%.

Basic Engineering Mathematics - index-of.co.uk

This last result is a special case of the more general formula, $\sum_{n=1}^N n(n+1)(n+2) \dots (n+r) = \frac{N(N+1)(N+2) \dots (N+r)(N+r+1)}{r+2}$. Plane wave expansion $\exp(ikz) = \exp(ikr \cos \theta) = \sum_{l=0}^{\infty} (2l+1) i^l j_l(kr) P_l(\cos \theta)$, where $P_l(\cos \theta)$ are Legendre polynomials (see section 11) and $j_l(kr)$ are spherical Bessel functions, denoted by $j_l(\rho) = r^{-1/2} J_{l+1/2}(\rho)$

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Civil Engineering Formulas | Basic Math Formulas

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All Maths Formulas List | Basic Math Formulas

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