



Air maths tuition

Interact, engage and perform

Indices (Exponents) - Division Rule

$$\frac{4^5}{4^3} = \frac{\cancel{4} \times \cancel{4} \times 4 \times \cancel{4} \times 4}{\cancel{4} \times \cancel{4} \times \cancel{4}} = 4^2$$

$$\frac{x^m}{x^n} = x^{m-n}$$

$$\frac{a^6}{a^2} = \frac{\cancel{a} \times \cancel{a} \times a \times a \times a \times a}{\cancel{a} \times \cancel{a}} = a^4$$

$$\frac{12x^5}{3x^3} = \frac{\cancel{12} \times \cancel{x} \times \cancel{x} \times \cancel{x} \times x \times x}{\cancel{3} \times \cancel{x} \times \cancel{x} \times \cancel{x}} = 4x^2$$

$$\frac{\cancel{5} a^2 b^3}{\cancel{10} a b c^2} = \frac{1}{2} \frac{a b^2}{c^2} = \frac{a b^2}{2 c^2}$$

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