



Air maths tuition

Interact, engage and perform

Indices (Exponents) Intro Exercise

Try these without a calculator

$$\begin{aligned} 1) 2^6 &= 2 \times 2 \times 2 \times 2 \times 2 \times 2 \\ &= 64 \end{aligned}$$

$$\begin{aligned} 2) 1^{100} &= 1 \times 1 \times 1 \dots \times 1 \\ &= 1 \end{aligned}$$

$$\begin{aligned} 3) 10 \text{ cubed} &= 10^3 \\ &= 10 \times 10 \times 10 \\ &= 1000 \end{aligned}$$

$$\begin{aligned} 4) 8 \text{ squared} &= 8^2 \\ &= 8 \times 8 \\ &= 64 \end{aligned}$$

$$\begin{aligned} 5) 2 \times 4^2 &= 2 \times 4 \times 4 \\ &= 32 \end{aligned}$$

$$\begin{aligned} 6) \text{ Simplify} \\ a \times a \times a \times a \times a &= a^5 \end{aligned}$$

$$\begin{aligned} 7) \text{ Simplify} \\ 9 \times b \times b \times b \times b \times b \times b &= 9b^6 \end{aligned}$$

8) If $k = 4$, Find the value of $3k^3$

$$\begin{aligned} 3k^3 &= 3 \times 4 \times 4 \times 4 \\ &= 192 \end{aligned}$$



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