

a Write $3^4 \times 3^5$ as a single power 3^9 multiplying: add the indices	b Write $7^8 \div 7^2$ as a single power 7^6 dividing: subtract the indices	c Write $6^5 \times 6$ as a single power 6^6 an index of 1 not written	d Write $(5^2)^3$ as a single power 5^6 a power of a power
e Work out 4^0 1 the zero index	f Work out 5^{-1} $\frac{1}{5}$ a negative index	g Work out 2^{-3} $\frac{1}{8}$ a negative index with a power	h Work out $25^{\frac{1}{2}}$ 5 a half power is a square root
i Work out $64^{\frac{1}{3}}$ 4 a third power is a cube root	j Work out $8^{\frac{2}{3}}$ 4 a fractional index: root and power	k Work out $16^{-\frac{1}{2}}$ $\frac{1}{4}$ a negative fractional index	l Work out $\left(\frac{8}{27}\right)^{-\frac{2}{3}}$ $\frac{9}{4}$ a negative fractional index of a fraction

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