



## Exponents - Power Law - Variable Exponent Base with Known Power to Ten Base with Unknown Power

**1** Solve for the missing exponent (?)

$$(10^3)^3 = 10^?$$

A	B	C	D	E	F
? = 11	? = 2	? = 17	? = 9	? = 6	? = 13

**2** Solve for the missing exponent (?)

$$(10^4)^3 = 10^?$$

A	B	C	D	E	F
? = 17	? = 12	? = 19	? = 10	? = 3	? = 7

**3** Solve for the missing exponent (?)

$$(10^3)^2 = 10^?$$

A	B	C	D	E	F
? = 10	? = 11	? = 6	? = 4	? = 1	? = 3

**4** Solve for the missing exponent (?)

$$(10^4)^2 = 10^?$$

A	B	C	D	E	F
? = 15	? = 5	? = 9	? = 2	? = 8	? = 3

**5** Solve for the missing exponent (?)

$$(10^2)^2 = 10^?$$

A	B	C	D	E	F
? = 5	? = 4	? = 3	? = 6	? = 2	? = 8

**6** Solve for the missing exponent (?)

$$(10^2)^3 = 10^?$$

A	B	C	D	E	F
? = 10	? = 8	? = 6	? = 2	? = 9	? = 11