



## Exponents - Power Law - Power of Ten Base with Variable Power to Ten Base

### with Unknown Power

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

$$1000^3 = 10^?$$

A	B	C	D	E	F
? = 15	? = 4	? = 11	? = 3	? = 18	? = 9

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

$$100^2 = 10^?$$

A	B	C	D	E	F
? = 6	? = 8	? = 4	? = 12	? = 7	? = 3

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

$$10000^3 = 10^?$$

A	B	C	D	E	F
? = 12	? = 15	? = 7	? = 3	? = 11	? = 4

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

$$10000^2 = 10^?$$

A	B	C	D	E	F
? = 10	? = 6	? = 8	? = 1	? = 7	? = 12

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

$$1000^2 = 10^?$$

A	B	C	D	E	F
? = 13	? = 12	? = 10	? = 8	? = 3	? = 6

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

$$100^3 = 10^?$$

A	B	C	D	E	F
? = 6	? = 3	? = 5	? = 4	? = 1	? = 11