



Exponents - Power Law - Ten Base with Variable Power to Exponent Base with

Unknown Power

1 Solve for the missing exponent (?)

$$10^9 = (10^3)^?$$

A	B	C	D	E	F
? = 3	? = 6	? = 5	? = 11	? = 10	? = 1

2 Solve for the missing exponent (?)

$$10^6 = (10^3)^?$$

A	B	C	D	E	F
? = 10	? = 3	? = 4	? = 11	? = 6	? = 2

3 Solve for the missing exponent (?)

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

A	B	C	D	E	F
? = 6	? = 4	? = 1	? = 8	? = 7	? = 2

4 Solve for the missing exponent (?)

$$10^{12} = (10^4)^?$$

A	B	C	D	E	F
? = 3	? = 4	? = 11	? = 7	? = 6	? = 5

5 Solve for the missing exponent (?)

$$10^8 = (10^4)^?$$

A	B	C	D	E	F
? = 7	? = 2	? = 3	? = 5	? = 10	? = 8

6 Solve for the missing exponent (?)

$$10^6 = (10^2)^?$$

A	B	C	D	E	F
? = 8	? = 4	? = 3	? = 7	? = 2	? = 1