



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



Base with Unknown Power

1 Solve for the missing exponent (?)

$$100^9 = (10^3)^?$$

A	B	C	D	E	F
? = 4	? = 15	? = 2	? = 12	? = 3	? = 6

2 Solve for the missing exponent (?)

$$100^8 = (10^4)^?$$

A	B	C	D	E	F
? = 4	? = 11	? = 9	? = 13	? = 10	? = 2

3 Solve for the missing exponent (?)

$$1000^{12} = (10^4)^?$$

A	B	C	D	E	F
? = 9	? = 3	? = 15	? = 13	? = 1	? = 7

4 Solve for the missing exponent (?)

$$100^{12} = (10^4)^?$$

A	B	C	D	E	F
? = 14	? = 6	? = 10	? = 1	? = 8	? = 13

5 Solve for the missing exponent (?)

$$1000^6 = (10^2)^?$$

A	B	C	D	E	F
? = 16	? = 4	? = 14	? = 9	? = 13	? = 1

6 Solve for the missing exponent (?)

$$10000^4 = (10^2)^?$$

A	B	C	D	E	F
? = 13	? = 7	? = 8	? = 5	? = 14	? = 11

7 Solve for the missing exponent (?)

$$100^6 = (10^3)^?$$

A	B	C	D	E	F
? = 6	? = 12	? = 8	? = 7	? = 5	? = 4

8 Solve for the missing exponent (?)

$$1000^8 = (10^4)^?$$

A	B	C	D	E	F
? = 2	? = 6	? = 12	? = 10	? = 1	? = 4