



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

Base with Unknown Power

1 Solve for the missing exponent (?)

$$1000^8 = 10000^?$$

A	B	C	D	E	F
? = 6	? = 9	? = 8	? = 11	? = 5	? = 14

2 Solve for the missing exponent (?)

$$100^8 = 10000^?$$

A	B	C	D	E	F
? = 4	? = 11	? = 2	? = 5	? = 1	? = 8

3 Solve for the missing exponent (?)

$$1000^4 = 100^?$$

A	B	C	D	E	F
? = 6	? = 5	? = 15	? = 1	? = 4	? = 3

4 Solve for the missing exponent (?)

$$10000^6 = 1000^?$$

A	B	C	D	E	F
? = 7	? = 4	? = 8	? = 13	? = 3	? = 10

5 Solve for the missing exponent (?)

$$100^9 = 1000^?$$

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

6 Solve for the missing exponent (?)

$$100^6 = 1000^?$$

A	B	C	D	E	F
? = 1	? = 9	? = 4	? = 5	? = 7	? = 3

7 Solve for the missing exponent (?)

$$10000^4 = 100^?$$

A	B	C	D	E	F
? = 15	? = 8	? = 3	? = 10	? = 4	? = 5

8 Solve for the missing exponent (?)

$$100^{12} = 10000^?$$

A	B	C	D	E	F
? = 3	? = 6	? = 4	? = 13	? = 1	? = 14