



Math worksheet on 'Exponents - Power Law - Power of Ten Base with Variable Power to Exponent Base with Unknown Power (Level 1)'. Part of a broader unit on 'Exponents - Power Law - Practice'

Learn online: app.mobius.academy/math/units/exponents_power_law_practice/

1 Solve for the missing exponent (?)

$$10000^9 = (10^3)^?$$

a	b	c	d	e	f
? = 5	? = 12	? = 21	? = 9	? = 19	? = 14

2 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 2	? = 12	? = 3	? = 4	? = 6	? = 15

3 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 4	? = 1	? = 9	? = 16	? = 13	? = 14

4 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 1	? = 15	? = 7	? = 3	? = 9	? = 13

5 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 7	? = 5	? = 4	? = 12	? = 8	? = 6

6 Solve for the missing exponent (?)

$$1000^4 = (10^2)^?$$

a	b	c	d	e	f
? = 4	? = 11	? = 2	? = 12	? = 1	? = 6

7 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 1	? = 8	? = 6	? = 13	? = 10	? = 14