



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

Learn online: [app.mobius.academy/math/units/exponents\\_power\\_law\\_practice/](http://app.mobius.academy/math/units/exponents_power_law_practice/)

2 Solve for the missing exponent (?)

$$(10^2)^8 = (10^?)^4$$

a	b	c	d	e	f
? = 4	? = 6	? = 7	? = 5	? = 8	? = 3

1 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 5	? = 4	? = 11	? = 7	? = 2	? = 10

3 Solve for the missing exponent (?)

$$(10^3)^4 = (10^?)^6$$

a	b	c	d	e	f
? = 3	? = 5	? = 6	? = 2	? = 1	? = 8

4 Solve for the missing exponent (?)

$$(10^2)^6 = (10^?)^4$$

a	b	c	d	e	f
? = 7	? = 10	? = 6	? = 5	? = 8	? = 3

5 Solve for the missing exponent (?)

$$(10^4)^6 = (10^?)^{12}$$

a	b	c	d	e	f
? = 6	? = 8	? = 2	? = 5	? = 3	? = 4

6 Solve for the missing exponent (?)

$$(10^3)^{12} = (10^?)^9$$

a	b	c	d	e	f
? = 5	? = 7	? = 6	? = 9	? = 8	? = 4

7 Solve for the missing exponent (?)

$$(10^4)^9 = (10^?)^{12}$$

a	b	c	d	e	f
? = 3	? = 2	? = 7	? = 12	? = 4	? = 8