



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

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1 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 6	? = 5	? = 1	? = 4	? = 9	? = 3

2 Solve for the missing exponent (?)

$$(10^2)^{12} = (10^4)^?$$

a	b	c	d	e	f
? = 1	? = 5	? = 13	? = 4	? = 6	? = 14

3 Solve for the missing exponent (?)

$$(10^3)^6 = (10^2)^?$$

a	b	c	d	e	f
? = 15	? = 2	? = 11	? = 9	? = 5	? = 3

4 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 13	? = 2	? = 8	? = 12	? = 11	? = 9

5 Solve for the missing exponent (?)

$$(10^3)^{12} = (10^4)^?$$

a	b	c	d	e	f
? = 1	? = 16	? = 4	? = 2	? = 9	? = 8

6 Solve for the missing exponent (?)

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

a	b	c	d	e	f
? = 8	? = 1	? = 9	? = 11	? = 2	? = 3

7 Solve for the missing exponent (?)

$$(10^2)^9 = (10^3)^?$$

a	b	c	d	e	f
? = 9	? = 13	? = 10	? = 11	? = 3	? = 6