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

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1

Solve for the missing exponent (?)

$$(10^3)^{12} = 10000^{?}$$

a	b	c	d	e	f
$? = 10$	$? = 9$	$? = 4$	$? = 17$	$? = 3$	$? = 7$

2

Solve for the missing exponent (?)

$$(10^4)^6 = 100^{?}$$

a	b	c	d	e	f
$? = 6$	$? = 15$	$? = 7$	$? = 2$	$? = 12$	$? = 5$

3

Solve for the missing exponent (?)

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

a	b	c	d	e	f
$? = 16$	$? = 14$	$? = 8$	$? = 3$	$? = 4$	$? = 9$

4

Solve for the missing exponent (?)

$$(10^2)^{12} = 10000^{?}$$

a	b	c	d	e	f
$? = 3$	$? = 11$	$? = 14$	$? = 6$	$? = 9$	$? = 2$

5

Solve for the missing exponent (?)

$$(10^4)^9 = 1000^{?}$$

a	b	c	d	e	f
$? = 9$	$? = 16$	$? = 15$	$? = 2$	$? = 18$	$? = 12$

6

Solve for the missing exponent (?)

$$(10^2)^8 = 10000^{?}$$

a	b	c	d	e	f
$? = 12$	$? = 2$	$? = 8$	$? = 7$	$? = 5$	$? = 4$

7

Solve for the missing exponent (?)

$$(10^3)^8 = 10000^{?}$$

a	b	c	d	e	f
$? = 15$	$? = 10$	$? = 6$	$? = 9$	$? = 1$	$? = 3$