Name

Exponents - Power Law - Variable Exponent Base with Known Power to Power of Ten Base with Unknown Power

1 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 2$	$? = 18$	$? = 9$	$? = 5$	$? = 1$	$? = 13$

2 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 6$	$? = 2$	$? = 11$	$? = 7$	$? = 10$	$? = 12$

3 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 6$	$? = 11$	$? = 16$	$? = 9$	$? = 19$	$? = 12$

4 Solve for the missing exponent (?)

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

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

5 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 12$	$? = 10$	$? = 6$	$? = 11$	$? = 21$	$? = 20$

6 Solve for the missing exponent (?)

$$(10^4)^4 = 100^?$$

A	B	C	D	E	F
$? = 13$	$? = 8$	$? = 15$	$? = 11$	$? = 17$	$? = 16$

7 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 15$	$? = 3$	$? = 12$	$? = 6$	$? = 11$	$? = 10$

8 Solve for the missing exponent (?)

$$(10^2)^9 = 1000^?$$

A	B	C	D	E	F
$? = 3$	$? = 15$	$? = 6$	$? = 8$	$? = 1$	$? = 7$