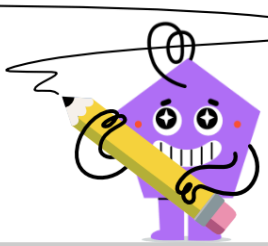
Name



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

1 Solve for the missing exponent (?)

$$(10^{2})^{9} = (10^{?})^{6}$$

A	B	C	D	E	F
$? = 11$	$? = 4$	$? = 12$	$? = 1$	$? = 8$	$? = 3$

2 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 6$	$? = 1$	$? = 8$	$? = 10$	$? = 3$	$? = 4$

3 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 3$	$? = 7$	$? = 2$	$? = 6$	$? = 5$	$? = 4$

4 Solve for the missing exponent (?)

$$(10^{3})^{6} = (10^{?})^{9}$$

A	B	C	D	E	F
$? = 4$	$? = 6$	$? = 1$	$? = 8$	$? = 2$	$? = 10$

5 Solve for the missing exponent (?)

$$(10^{2})^{12} = (10^{?})^{6}$$

A	B	C	D	E	F
$? = 13$	$? = 2$	$? = 3$	$? = 5$	$? = 1$	$? = 4$

6 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 3$	$? = 8$	$? = 2$	$? = 11$	$? = 1$	$? = 4$

7 Solve for the missing exponent (?)

$$(10^{4})^{6} = (10^{?})^{8}$$

A	B	C	D	E	F
$? = 4$	$? = 5$	$? = 3$	$? = 7$	$? = 11$	$? = 6$

8 Solve for the missing exponent (?)

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

A	B	C	D	E	F
$? = 6$	$? = 3$	$? = 7$	$? = 2$	$? = 10$	$? = 5$