



Math worksheet on 'Exponents - Power Law with Prime Base (Negatives, Fraction with Power to Exponent) (Level 1)'. Part of a broader unit on 'Exponents - Multiplication and Division - Advanced'

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1 Find the answer when these terms are multiplied

a	b	c
2^{-9}	2^{-90}	2^0
$\frac{1}{2^3} \cdot \frac{1}{2^3} \cdot \frac{1}{2^3}$		

2 Find the answer when these terms are multiplied

$\frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2}$

a	b	c	d
7^0	7^2	7^{-8}	7^{-800}

3 Find the answer when these terms are multiplied

$\frac{1}{11} \cdot \frac{1}{11} \cdot \frac{1}{11} \cdot \frac{1}{11}$

a	b	c	d
11^0	11^{-3}	11^{-4}	11^{-40}

4 Find the answer when these terms are multiplied

$\frac{1}{3^5} \cdot \frac{1}{3^5} \cdot \frac{1}{3^5} \cdot \frac{1}{3^5} \cdot \frac{1}{3^5} \cdot \frac{1}{3^5}$

a	b	c	d	e
3^{-300}	3^{-3}	$3^{-3,000}$	3^{-30}	3^{-27}

5 Find the answer when these terms are multiplied

$\frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2}$

a	b	c	d
7^{-1}	7^4	7^{-11}	7^{-12}

6 Find the answer when these terms are multiplied

$\frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6}$

a	b	c	d	e
5^0	5^{-40}	5^{-36}	5^{-360}	5^{-33}

7 Find the answer when these terms are multiplied

a	b	c
3^{-1}	3^{-12}	3^{-11}
$\frac{1}{3^4} \cdot \frac{1}{3^4} \cdot \frac{1}{3^4}$		
d		
3^{-13}		