



Math worksheet on 'Exponents - Multiplication (Expanded) - Positive by Negative to Negative (Level 1)'. Part of a broader unit on 'Exponents - Multiplication - Intro'

Learn online: [app.mobius.academy/math/units/exponents\\_multiplication\\_intro/](http://app.mobius.academy/math/units/exponents_multiplication_intro/)

1 Find the answer when these terms are multiplied

$$(b \times b) \cdot \left( \frac{1}{b \times b \times b \times b} \right)$$

- |       |          |          |          |          |       |
|-------|----------|----------|----------|----------|-------|
| a     | b        | c        | d        | e        | f     |
| $b^0$ | $b^{-2}$ | $b^{-5}$ | $b^{-4}$ | $b^{-3}$ | $b^9$ |

2 Find the answer when these terms are multiplied

$$(p \times p) \cdot \left( \frac{1}{p \times p \times p \times p} \right)$$

- |          |          |          |       |     |       |
|----------|----------|----------|-------|-----|-------|
| a        | b        | c        | d     | e   | f     |
| $p^{-1}$ | $p^{-9}$ | $p^{-2}$ | $p^2$ | $p$ | $p^6$ |

3 Find the answer when these terms are multiplied

$$(y) \cdot \left( \frac{1}{y \times y \times y} \right)$$

- |       |          |     |          |       |          |
|-------|----------|-----|----------|-------|----------|
| a     | b        | c   | d        | e     | f        |
| $y^7$ | $y^{-2}$ | $y$ | $y^{-7}$ | $y^9$ | $y^{-6}$ |

4 Find the answer when these terms are multiplied

$$(b \times b \times b) \cdot \left( \frac{1}{b \times b \times b \times b \times b} \right)$$

- |       |          |          |          |       |          |
|-------|----------|----------|----------|-------|----------|
| a     | b        | c        | d        | e     | f        |
| $b^6$ | $b^{-2}$ | $b^{-8}$ | $b^{-5}$ | $b^2$ | $b^{-1}$ |

5 Find the answer when these terms are multiplied

$$(x \times x \times x) \cdot \left( \frac{1}{x \times x \times x \times x} \right)$$

- |          |       |          |       |           |          |
|----------|-------|----------|-------|-----------|----------|
| a        | b     | c        | d     | e         | f        |
| $x^{-6}$ | $x^4$ | $x^{-4}$ | $x^9$ | $x^{-10}$ | $x^{-1}$ |

6 Find the answer when these terms are multiplied

$$(n) \cdot \left( \frac{1}{n \times n \times n \times n} \right)$$

- |          |          |          |       |          |          |
|----------|----------|----------|-------|----------|----------|
| a        | b        | c        | d     | e        | f        |
| $n^{-8}$ | $n^{-3}$ | $n^{-6}$ | $n^3$ | $n^{-7}$ | $n^{-2}$ |

7 Find the answer when these terms are multiplied

$$(c \times c \times c) \cdot \left( \frac{1}{c \times c \times c \times c \times c} \right)$$

- |       |          |       |       |       |          |
|-------|----------|-------|-------|-------|----------|
| a     | b        | c     | d     | e     | f        |
| $c^4$ | $c^{-1}$ | $c^8$ | $c^0$ | $c^7$ | $c^{-2}$ |