# mobius

Math worksheet on *'Exponents - Multiplication (Expanded) - Negative 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/

---

**1** Find the answer when these terms are multiplied

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $d^{-7}$ | $d^2$ | $d^{-8}$ | $d^{-10}$ | $d$ | $d^{-9}$ |

---

**2** Find the answer when these terms are multiplied

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $c^{-7}$ | $c$ | $c^{-6}$ | $c^4$ | $c^{-5}$ | $c^{-4}$ |

---

**3** Find the answer when these terms are multiplied

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $p^5$ | $p^8$ | $p^{-7}$ | $p^9$ | $p^0$ | $p^{-3}$ |

---

**4** Find the answer when these terms are multiplied

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $y^{-1}$ | $y^{-4}$ | $y$ | $y^0$ | $y^8$ | $y^{-5}$ |

---

**5** Find the answer when these terms are multiplied

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $d^{-10}$ | $d^6$ | $d^9$ | $d^{-6}$ | $d^{-7}$ | $d^{-4}$ |

---

**6** Find the answer when these terms are multiplied

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $m^{-4}$ | $m^5$ | $m^{-9}$ | $m^6$ | $m^{-2}$ | $m^{-6}$ |

---

**7** Find the answer when these terms are multiplied

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

| a | b | c | d | e | f |
|---|---|---|---|---|---|
| $y^{-2}$ | $y^7$ | $y^{-5}$ | $y^{-7}$ | $y^6$ | $y^9$ |

---