

**Level 1: The Basics**

You may move on to the next level once the teacher has made sure you got a 100%.

**Multiplying Powers**

1)  $x^3 \cdot x^7$

**Dividing Powers**

2)  $\frac{x^9}{x^3}$

**Power to a Power**

3)  $(a^5)^2$

**Zero Exponents**

4)  $10^0$

**Negative Exponents**

5)  $n^{-3}$

**Level 2: 2 Properties in 1**

You may move on to the next level once the teacher has made sure you got a 100%.

1)  $(x^4 \cdot x^2)^3$

2)  $\left(\frac{2^7}{2^4}\right)^5$

3)  $\frac{f^9 f^3}{f^5}$

4)  $\left(\frac{k}{k^5}\right)^2$

**Level 3: With coefficients**

You may move on to the next level once the teacher has made sure you got a 100%.

1)  $3d^4 \cdot 2d^5$

2)  $\frac{12c^9}{3c^4}$

3)  $(5b^3)^2$

4)  $5x^0$

5)  $6k^{-3}$

6)  $(3m^2)^3$

7)  $\left(\frac{f^4}{2}\right)^4$

**Level 4: Multiple Variables**

You may move on to the next level once the teacher has made sure you got a 100%.

1)  $-4w^4v \cdot -3w^5v^2$

2)  $\frac{8y^9z^4}{8y^4z^6}$

3)  $(7j^{10}k^5l)^2$

4)  $\left(\frac{f^0}{3g}\right)^3$

**Level 5: Harder**

You may move on to the next level once the teacher has made sure you got a 100%.

1)  $\frac{35p^9q^{-3}}{30p^4q^3}$

2)  $\left(\frac{r^4r^{-3}s^3}{4rs^{-1}}\right)^3$

3)  $3mn^{-2} \cdot 6m^{-4}n^5 \cdot \frac{1}{2}m^0n$

**Level 6: At Your Own Risk!**

You may start on the homework once you have gotten the correct answer.

$$\left(\frac{4x^7y^5 \cdot 3x \cdot 2x^{-3}z}{5w^{50} \cdot 6x^2y^8 \cdot y^{-5}z^{-3}}\right)^2 \cdot \frac{w^{100}}{(2xyz^2)^4}$$