Level 0: The Basics

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

4) 10°

Multiplying Powers

Dividing Powers

Power to a Power

Zero Exponents

Negative Exponents

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

XIO

50.00	~9
2)	<u>~</u>
-,	x^3

3) $(a^5)^2$

$$\int_{\gamma}^{n}$$

Level 1: 2 Properties in 1

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

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

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

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

4)
$$\left(\frac{k}{k^5}\right)^2 \left(\frac{1}{k^5}\right)^2$$



Level 2: With coefficients

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

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





5)
$$6k^{-3}$$

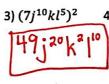
$$\frac{3m^2 \cdot 3m^2 \cdot 3m^2}{6)(3m^2)^3} 7) \left(\frac{f^4}{2}\right)^4$$

Level 3: Multiple Variables

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

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













Level 4: Harder

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

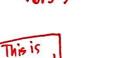
1)
$$3mn^{-2} \cdot 6m^{-4}n^5 \cdot \frac{1}{2}m^0n$$

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





$$3) \left(\frac{2r^4r^{-3}s}{6rs^6}\right)^3 \longrightarrow \left(\frac{1}{3s^5}\right)^3$$





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

$$\frac{9 \cdot 2 \cdot - 4 \cdot x^{5} \cdot x^{-3} \cdot x^{1} \cdot y^{4} \cdot y^{6} \cdot z^{1} \cdot \lambda \cdot x^{2}}{3 \cdot - 6 \cdot 3 \cdot w^{36} \cdot x^{12} \cdot y^{6} \cdot y^{-5} \cdot z^{-4} \cdot z^{5}} \left(\frac{-9x^{5}y^{4} \cdot 2x^{-3}z^{1} \cdot -4x^{1}y^{0} \cdot x^{12}}{3x^{12}y^{8} \cdot -6w^{30}z^{-9} \cdot 3y^{-5}z^{5}} \right)^{3} \left(\frac{w^{100}}{(2x^{1}y^{1}z^{2})^{3}} \right)^{3} \left(\frac{w^{100}}{8x^{3}y^{3}z^{6}} \right) \\
\left(\frac{-y^{6} \cdot -8 \cdot x^{5} \cdot y^{4} \cdot z^{1}}{3w^{30} \cdot x^{12} \cdot y^{3} \cdot z^{-4}} \right)^{3} \rightarrow \left(\frac{-8yz^{5}}{3w^{30}x^{7}} \right)^{3} \rightarrow \left(\frac{-512y^{3}z^{15}}{27w^{90}x^{21}} \right) \left(\frac{w^{100}}{8x^{3}y^{3}z^{6}} \right) \rightarrow \frac{-512w^{100}y^{3}z^{15}}{27\cdot 8w^{90}x^{24}y^{3}z^{6}} \right)$$

