Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_

U11 HW#6*More Exponent Practice*

**Directions:** Simplify each expression. Assume that no denominator is equal to zero.

SHOW YOUR WORK!!! If in DOUBT... Expand it out!

|  |  |
| --- | --- |
| 1. $a^{15}∙a^{11}$
 | 1. $5j^{4}\left(-9j^{5}\right)$
 |
| 1. $\left(a^{3}\right)^{6}$
 | 1. $\left[\left(k^{5}\right)^{2}\right]^{3} $
 |
| 1. $\left(4gz\right)^{2}$
 | 1. $-3\left(km^{4}\right)^{4}$
 |
| 1. $\frac{t^{9}}{t^{3}}$
 | 1. $\frac{x^{3}y^{2}z}{x^{2}y^{2}}$
 |
| 1. $\left(\frac{2}{3}\right)^{4}$
 | 1. $\left(\frac{c}{b}\right)^{15}$
 |
| 1. $\frac{3}{c^{-2}}$
 | 1. $\frac{6p^{-2}}{p^{2}}$
 |
| 1. $\left[\left(\frac{33y^{17}z}{12a^{115}b}\right)^{5}\right]^{0}$
 | 1. $(bc^{3})(b^{4}c^{3})$
 |
| 1. $\frac{9a^{2}b^{7}c^{3}}{2a^{5}b^{4}c^{5}}$
 | 1. $\left(\frac{-18x^{0}a^{3}}{6\left(x^{-2}\right)\left(x^{3}a^{2}\right)}\right)^{2}$
 |