

Name: _____

Exponents and Division Worksheet: 

Simplify each fraction. Get rid of any negative signs.

| | | |
|---|---|--|
| 1.) $\frac{14a^3b}{4ab^4}$ | 2.) $\frac{63m^5n^6}{27mn}$ | 3.) $\frac{24w^2z^9}{15w^4z^5}$ |
| 4.) $\frac{a^6b^4}{a^3b^{-2}c^{-5}}$ | 5.) $\frac{c^{-2}d^{11}}{c^8d^{-5}}$ | 6.) $\frac{-12m^{-5}n^{-4}}{4m^2n^{-9}}$ |
| 7.) $\frac{2ab^{-6}}{a^{-3}b}$ | 8.) $\frac{3p^{-2}s^{-9}}{6p^6s^{-11}}$ | 9.) $\frac{c^2d^{-5}}{c^3d^{-1}}$ |
| 10.) $\frac{a^3b^2c^{-4}}{a^{-2}b^5c^{-9}}$ | 11.) $-3hj^{-4}k^3$ | 12.) $x^{-4}yz^{-7}$ |

Write without a fraction bar.

| | | |
|----------------------------|--------------------------------|------------------------------------|
| 13.) $\frac{ab^4}{a^2b^8}$ | 14.) $\frac{4x^2y^4}{2x^2y^6}$ | 15.) $\frac{x^3y^{-5}}{x^4y^{-8}}$ |
|----------------------------|--------------------------------|------------------------------------|

16.) If your simplified fraction is: $\frac{3w}{2y^2}$ write two examples of what the original fraction could have been. (You must change all three components of your fraction).

a.)

b.)