Exponent Rules Skills Check Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Simplify (no negative exponents).

1. (5x2y-4)(3xy2) 2. (-3a-4b3)-3 3. $\frac{x^{4}y^{5}z^{-7}}{xy^{5}z^{6}}$

4. -3(4x2yz3)2 5. $\frac{75x^{3}y^{7}}{15xy^{10}}$ 6. -(82)-3 (leave in exponential form)

7. (x4)3 8. $\frac{(3a)^{2}b^{5}}{9ab^{7}}$ 9. $\frac{12a^{10}x^{5}y^{-4}z}{20ax^{-3}y^{-5}z^{0}}$

10. $\frac{10x^{5}y^{8}z^{10}}{22x^{8}y^{8}z^{4}}$ 11. 52 · 5-3 12. (8x-2)(2x)3

13. -53w3y7z-2y-3z(-2z)-2 14. a-2(a2) 15. (-3x-2)