

## Chapter 8 Practice Test 1

Simplify each expression and put your final answer in the blank to the left of the question.

\_\_\_\_\_ 1.  $n^2 \cdot n^4$

\_\_\_\_\_ 2.  $2n^2 \cdot 3n^5$

\_\_\_\_\_ 3.  $(-2ab^3)(5a^2b^2)$

\_\_\_\_\_ 4.  $-2n^2 \cdot 3n^2 \cdot -2n$

\_\_\_\_\_ 5.  $(3a^2b^4)^2$

\_\_\_\_\_ 6.  $(-5a^6b^3)^2$

\_\_\_\_\_ 7.  $(2a^2b^4c^3)^3$

\_\_\_\_\_ 8.  $\frac{a^2b^3}{a^4b}$

\_\_\_\_\_ 9.  $\frac{4ab^3}{6a^4b^3}$

\_\_\_\_\_ 10.  $\frac{5a^4b^2c^6}{20ab^5c^4}$

\_\_\_\_\_ 11.  $\frac{-4a^2b^3c}{10a^4b^2c^6}$

\_\_\_\_\_ 12.  $a^5 \cdot a^{-3}$

\_\_\_\_\_ 13.  $\frac{y^5e^{-4}s^2}{y^3e^2s^{-3}}$

\_\_\_\_\_ 14.  $\frac{n^4a^{-4}}{n^2a^5}$

\_\_\_\_\_ 15.  $\frac{n^5p^{-3}s^4}{n^3p^{-2}s^{-2}}$