

Name:

# Unit 6: Properties of Exponents

## Study Guide



1.  $2^4 \cdot 2^2 \cdot 2^5 = 2^{11}$

2.  $(4^3 x)^6 = 4^{18} x^6$

3.  $t^2 t^7 = t^9$

4.  $3a \cdot (a^5 b)^2 = 3a \cdot a^{10} b^2 = 3a^{11} b^2$

5.  $y^3 \cdot (y^4)^5 = y^3 \cdot y^{20} = y^{23}$

6.  $\frac{m^5 n^{11}}{nm} = m^4 n^{10}$

7.  $\frac{5^6 \cdot 5}{5^2} = \frac{5^7}{5^2} = 5^5$

8.  $\frac{1}{y^2} \cdot y^5 = \frac{y^5}{y^2} = y^3$

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