

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

© 2015 Kuta Software LLC. All rights reserved.

**Simplify. Your answer should contain only positive exponents.**

1)  $(2^2)^3$

2)  $(8^3)^2$

3)  $(3^2)^4$

4)  $(2^4)^2$

5)  $(7n)^3$

6)  $(6a^4)^3$

7)  $(5x^3)^2$

8)  $(5b^2)^3$

9)  $(6yx^4)^2$

10)  $(2x^3y^2)^2$

11)  $(6u^4v^4)^3$

12)  $(6yx^3)^3$

13)  $(3uv^4)^3$

14)  $(6yx^2)^4$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

© 2015 Kuta Software LLC. All rights reserved.

**Simplify. Your answer should contain only positive exponents.**

1)  $(2^2)^3$

$2^6$

2)  $(8^3)^2$

$8^6$

3)  $(3^2)^4$

$3^8$

4)  $(2^4)^2$

$2^8$

5)  $(7n)^3$

$343n^3$

6)  $(6a^4)^3$

$216a^{12}$

7)  $(5x^3)^2$

$25x^6$

8)  $(5b^2)^3$

$125b^6$

9)  $(6yx^4)^2$

$36y^2x^8$

10)  $(2x^3y^2)^2$

$4x^6y^4$

11)  $(6u^4v^4)^3$

$216u^{12}v^{12}$

12)  $(6yx^3)^3$

$216y^3x^9$

13)  $(3uv^4)^3$

$27u^3v^{12}$

14)  $(6yx^2)^4$

$1296y^4x^8$