**The Power to a Power Rule Practice**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Simplify.**

1. **(v5)4  \_\_\_\_\_\_ 2. (x4)8 \_\_\_\_\_\_\_ 3. (24)3 \_\_\_\_\_\_\_\_**

**4. (3x2)5 \_\_\_\_\_\_ 5. (x6y8)2 \_\_\_\_\_\_ 6. (a3b9)3 \_\_\_\_\_\_\_**

**7. (5x5y7)2 \_\_\_\_\_ 8. (4rt6)5 \_\_\_\_\_ 9. (a9b5c8)2 \_\_\_\_\_\_**

Teacher Twins©2014

**The Power to a Power Rule Practice**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Simplify.**

1. **(v5)4  \_\_\_\_\_\_ 2. (x4)8 \_\_\_\_\_\_\_ 3. (24)3 \_\_\_\_\_\_\_\_**

**4. (3x2)5 \_\_\_\_\_\_ 5. (x6y8)2 \_\_\_\_\_\_ 6. (a3b9)3 \_\_\_\_\_\_\_**

**7. (5x5y7)2 \_\_\_\_\_ 8. (4rt6)5 \_\_\_\_\_ 9. (a9b5c8)2 \_\_\_\_\_\_**

Teacher Twins©2014

**The Power to a Power Rule Practice**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_**

**Simplify.**

1. **(v5)4  = v20 2. (x4)8 = x32 3. (24)3 = 212 = 4096**

**4. (3x2)5 =35x10=243x105. (x6y8)2=x12y16. 6.(a3b9)3 = a9b27**

**7. (5x5y7)2 =25x10y14 8. (4rt6)5 = 1024r5t30 9. (a9b5c8)2 =a18b10c16**

Teacher Twins©2014

Teacher Twins©2014

**The Power to a Power Rule Practice**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Simplify.**

**1.(v5)4  \_\_\_\_\_\_ 2. (x4)8 \_\_\_\_\_\_\_ 3. (24)3 \_\_\_\_\_\_\_\_**

**4. (3x2)5 \_\_\_\_\_\_ 5. (x6y8)2 \_\_\_\_\_\_ 6. (a3b9)3 \_\_\_\_\_\_\_**

**7. (5x5y7)2 \_\_\_\_\_ 8. (4rt6)5 \_\_\_\_\_ 9. (a9b5c8)2 \_\_\_\_\_\_**