Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher / Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 10 – Review

|  |  |  |
| --- | --- | --- |
| Standard: 8.EE.A.1 - I can use the properties of integer exponents to simplify expressions. | | |
| **Directions:** Write each term as instructed. Show all work. | | | |
| Write the term in exponential form: | Write the term in expanded notation: | Evaluate the expression when k = 3 and m = 5 : | |
| **Directions:** Simplify the following using the rules of exponents. Your answers should be in the most simplified form with only positive exponents. | | | |
|  |  |  | |
|  |  |  | |
|  | | | |
| Simplify. Write answers with positive exponents.             1) (15-4 )(158) 2) a7(a8)(a)                3) (3m4n6)(2mn)0(2m2n) 4) -28a6b-3c5 7a11b-5c5                  5) (-1x5y6)10 6) (-2ab7 )3 7) 2x4y3  (- a4b2)5  (3z -3)2              8) (5m3n)(-2mn3) 9) (7ab)(2a5b6)-1   10) (-9x3y4)(-2y2)    Rachel’s garden is square in shape. The length of one side of her garden is 62 feet. What is the area of her garden in square feet? *Draw a picture. Label the units.*  What is the area of a rectangle with a length of 11x8 units and a width of 9x3 units? *Draw a picture. Label the units* | | | |