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

Unit 10 – Review

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| 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: $$2\*p\*p\*2\*p\*p$$ | Write the term in expanded notation: $$4a^{2}js$$ | Evaluate the expression when k = 3 and m = 5 : $$k^{2}\*m$$ |
| **Directions:** Simplify the following using the rules of exponents. Your answers should be in the most simplified form with only positive exponents. |
| $$\left(\frac{45x^{4}y}{9x}\right)^{2}$$ | $$\left[\left(\frac{33a^{17}b}{12ab^{41}}\right)^{0}\right]^{1}$$ | $$\frac{w^{-6}xy^{0}}{2x^{3}y}$$ |
| $$-4^{2}st^{2}•st$$ | $$3^{2}x^{-4}•-5x^{-2}$$ | $$3x^{3}y^{5}•10x^{10}y^{11}$$ |
|  |
|        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* |