

Name:

Date:

Period:

Assignment:

I.) Find the Value of the power.

1) 2^3 _____

2) 7^4 _____

3) 10^3 _____

4) 12^2 _____

5) 5^5 _____

II.) Write the product as a power.

6) $9 \times 9 \times 9 \times 9 \times 9 =$ _____

7) $4 \times 4 \times 4 =$ _____

8) $2 \times 2 \times 2 \times 2 \times 2 \times 2 =$ _____

9) $8 \times 8 =$ _____

10) $1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 =$ _____

III.) Please use the appropriate symbol (<, >, or =) to make these number sentences true:

11) 7^2 _____ 2^7

12) 3^3 _____ 8^3

13) 10^2 _____ 5^4

14) 4^2 _____ 2^4

15) 6^2 _____ 3^4

IV.) Please answer the following questions and show or explain the strategy you used to solve.

16) A light year is approximately 6×10^{12} miles. Using standard form re-write this number.

17) A powerful scientific microscope used by researchers can magnify an object 10,000 times its actual size. Use exponents to write a number that equals 10,000.

18) The following 2 problems were marked wrong on Mary's math quiz. Can you explain why?

$$5^2 = 5 \times 2 = 10$$

$$6 \times 6 \times 6 = 3^6$$

1.3 Practice A**Find the value of the expression.**

1. $2 \times (5 - 3)$

2. $16 - (4 \times 3)$

3. $27 \div (3 + 6)$

Evaluate the expression.

4. $15 - 4 \times 3$

5. $5 + (2 + 1)^3$

6. $7 + 4 \times 2^3$

7. $30 \div 6 \times 2$

8. $4 + 6^2 \div 12$

9. $13 - (28 - 4^2)$

10. Describe and correct the error in evaluating the expression.

\times	$56 \div 4 \times 2 = 56 \div 8 = 7$
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