

## **Off-Site Learning Packet Day 4**

- Today's assignment is a review of different topics you may have learned this school year or past school years.
- It leads into the next unit that you will be working on during your time away from school.

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Off-Site Learning Packet Day 4

### Chapter 7: Are You Ready?

Match each term on the left with a definition on the right.

- |             |  |
|-------------|--|
| 1. exponent | A. a symbol used to represent one or more numbers.             |
| 2. function | B. the set of counting numbers and their opposites.            |
| 3. relation | C. a relation with at most one $y$ -value for each $x$ -value. |
| 4. variable | D. the number of time the base of a power is used as a factor. |
|             | E. a set of ordered numbers.                                   |

Simplify each expression.

5.  $x^2(x^3)x$  5. \_\_\_\_\_

6.  $3y^{-1}(5x^2y^2)$  6. \_\_\_\_\_

7.  $\frac{a^8}{a^2}$  7. \_\_\_\_\_

8.  $\frac{x^2y^5}{xy^6}$  8. \_\_\_\_\_

9.  $(3x)^2(4x^3)$  9. \_\_\_\_\_

Use the simple interest formula,  $I = Prt$ , where  $I$  is the interest,  $P$  is the initial amount (the principal),  $r$  is the interest rate, and  $t$  is the time period for Problems 10-12.

10. Find the simple interest on an investment of \$3000 at 3% for 2 years.

10. \_\_\_\_\_

11. A savings account of \$2000 earned \$90 simple interest in 3 years. Find the interest rate.

11. \_\_\_\_\_

12. Jeri got a loan at 6% simple interest for 3 years. She paid back a total of \$5310. How much was the loan?

12. \_\_\_\_\_

Solve each equation for  $x$ .

13.  $3x - y = 4$

13. \_\_\_\_\_

14.  $y = -7x + 3$

14. \_\_\_\_\_

15.  $\frac{x}{2} = 3y - 4$

15. \_\_\_\_\_