

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: _____

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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. _____