**Math Plus Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Unit 1 Lesson 2 Homework**

**I. Evaluate the expression for the given value of the variable.**

1. 2.

3. 4.

**II. Decide whether the statement is true or false. If it is false, give a counterexample.**

5.

6. The product is always positive.

7. If , then for any real number *c*, .

**III. Evaluate the expression for the given value(s) of the variable(s).**

8. 9.

10. Find the area of a trapezoid whose height is 2m and whose bases are 6m and 10m.

11. Find the volume of a cylinder whose height is 3cm and whose diameter is 10cm.

**IV. Write the algebraic expression.**

12. Eleven decreased by the quantity of four plus a number.

13. Four increased by 11 times a number.

14. Four times the difference of x and 7.

15. Nine more than a number.

16. Three more than half of a number.

17. The quotient of a number and two tenths.

18. The ratio of two cubed and a number.

19. Five squared minus a number.

20. The product of four and a number.

21. The product of two and the sum of six and a number.