## **Homework: Variables and Expressions**

## I. Indicate with math symbols what operations are being described by the given word(s). Use

+, -, x, or  $\div$  symbols.

1. sum \_\_\_\_

2. product \_\_\_\_\_

3. decreased by \_\_\_\_\_

4. quotient

5. increased by \_\_\_\_\_

6. difference \_\_\_\_\_

7. more than \_\_\_\_\_

8. less than \_\_\_\_\_

9. twice something \_\_\_\_\_

## II. Write a verbal expression for the algebraic expression.

11. 
$$x + 7$$

13. 
$$m^3$$

14. 
$$x - 6$$

15. 
$$8y^2$$

16. 
$$\frac{x}{y}$$

17. 
$$\frac{1}{2}(x + y)$$

18. 
$$3x - 4$$

19. 
$$5(a-b)$$

## III. Write an algebraic expression to the given verbal expression.

20. eight less than a number

21. a number increased by seven

22. the quotient of m and n

23. a number squared

24. nine times a number

25. a number decreased by three

26. seven more than the cube of a number

27. one-half the product of x and y

28. the product of twice a and b

29. twice the product of a and b

30. two less than five times a number

31. twice a number increased by three times the number

32. the sum of 3 times a and b

33. three times the sum of a and b

34. the cube of a plus b

35. the cube of the sum of a and b