Variables and Expressions WS#1

I. Indicate with math symbols what operations are being described by the given word(s). Use +, -, x, or ÷ 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.

10. ab

11. $x + 7$

12. $2x$

13. m^3

14. $x - 6$

15. $8y^2$

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

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