Algebra I – 1.1 Variables and Expressions (Homework)

Write a verbal expression for each algebraic expression.

1. $23f$

2. $9a^2$

3. $c + 2$

4. $4 - 5h$

5. $\dfrac{x^3}{10}$

6. $w - 13$

7. $n - 3$

8. $\dfrac{3}{5}x$

Write an algebraic expression for each verbal expression.

9. the sum of a number and 10

10. 15 less than k

11. the product of 18 and x

12. 6 more than twice a number

13. 8 increased by three times a number

14. 9 decreased by g to the fourth power

15. three fourths of b

16. 91 less a number

Real-World Problems

17. Jocelyn worked two summer jobs. She babysat for 25 hours and worked at the grocery store for 15 hours. Write an expression that describes her earnings. *(Remember to state your variables!)*

18. It is believed that $\frac{3}{4}$ of our dreams involve people that we know. Write an expression to describe the number of dreams that feature people you know if you have *d* dreams.

19. Use the expression you wrote to predict the number of dreams that include people you know out of 28 dreams.

20. Explain the difference between an algebraic expression and a verbal expression.