# Practice Test:

1. **Simplify each expression by combining like terms.**
   1. 6a + 3b + 4a - 2b
   2. 8x - 5y + 2x + 3y
   3. 7m + 2n - 3m + 5n
   4. 10p + 4q - 7p - 2q
   5. 9c - 4d + 3c + 2d – c
2. **Evaluate each expression using the given values of the variables.**
   1. 9x when x = 3
   2. 15y when y = 10
   3. 2a when a = 3
   4. when k = 4
   5. when c = 6
   6. when d = 28
3. **Solve each equation for the variable.**
   1. 7x = 35
   2. y/3 = 6
   3. 4a = 32
   4. 2b/5 = 10
   5. 15p = 75
   6. 5m/4 = 10
   7. 9c = 72
   8. 6k/3 = 9
   9. 12n = 84
   10. 8d/2 = 16
4. **Use the information provided to write and solve an equation.**
   1. **Triple a number gives you 21**
   2. **If a number is multiplied by 8**
   3. **The quotient of a number and 9**
   4. **A number divided by 4**
   5. **Twice a certain number**
   6. **If you divide a number by 7**
   7. **The product of 12 and a number?**
   8. **When a number is multiplied by 6**
   9. **Half of a number is 25.**
   10. **Dividing a number by 5?**
5. **Identify the coefficient and variable in each scenario**
   1. 6x
   2. 7x
   3. 9n
   4. 10c
   5. 4p
   6. 6g
   7. 11f
   8. 34e
   9. 2k