# 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. $\frac{8}{k}$ when k = 4
	5. $\frac{18}{c}$ when c = 6
	6. $\frac{d}{4}$ 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