**Practice Solving Equations**

Practice Combining Like Terms:

1. 5*b* – 17 – 13*b* = 7 2. –9 = 27 – 11*p* – 13*p*

3. 8*y* – 6 + 9 = 10*y* + 3 – 2*y*

Practice using the Distributive Property:

4. 2(3*a* + 2) = –8 5. –*x* + 4(*x* + 3) = –12

6. –4*d* – 2(3 + *d*) = –14 7. 4(*x* – 3) = –5(6 – 2*x*)

Mixture of Multi-Step Equations:

8. 16*x* – 15 – 9*x* = 13 9. –31 = 8 – 8*x* – 7

10. 15 – 2(*a* – 4) = 13 11. 8*x* – 10 – 3*x* = 20

12. 2*x* + 10 – 6*x* = 46 13. 2(*x* + 3) + 2*x* = 22

14. 8 – 3(*c* + 2) = –13 15. –(5*y* – 2) + 4 = 26

16. –6(2*x* – 10) = –32 17. 5*x* – 7 = 2(*x* + 1)

18. 3(*x* + 12) = 8 – 4*x* 19. *x* + 4*x* + 2 = 13 + 5*x* + 2

20. 3*x* – 2*x* + 8 = 15 21. 5*y* + 9*y* – 8 = –50

22. 11 + 6*y* – 8*y* = –3 23. 8*w* – 5*w* – 8 = 13

1. A health club charges non-members $2 per day to use all the facilities and $5 per day for aerobics classes. Members pay a yearly fee of $200 plus $3 per day for aerobic classes. You plan to take an aerobics class each time you go to the gym. Write and solve an equation to find the number of days you must use the club to justify a yearly membership*. Hint: Find the number of times for which the two plans would cost the same.*