Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 7
Chapter 4 – Expressions and Equations Notes #9

 **SOLVING 2-Step Equations with Rationals**

 Two-Step Equations:

 When solving two-step equations, we do

 order of operations in \_\_\_\_\_\_\_\_\_\_.

 1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 Be sure to....APPLY ALL \_\_\_\_\_\_ OF INTEGER OPERATIONS

We will check every *other* equation….

1) 5g – 3.8 = -18.8 **CHECK #1** 2) 2x + 1.8 = -9.2

3) $\frac{1}{2}g-\frac{2}{5}=\frac{7}{5}$ **CHECK #3** 4) $-2+ \frac{b}{3}=-5$

5) 2.2h – (-4) = 13.24

6) It costs $2.50 to rent bowling shoes. Each game costs $2.25. You have $9.25. How many games can you bowl? Set up an equation to represent problem. DO NOT SOLVE IT.

7) $\frac{9}{4}v+ \frac{4}{5}=\frac{7}{8} $

8) On Saturday, you catch insects for your science class. Five of the insects escape. The remaining insects are divided into three groups to share in class. Each group has nine insects. How many insects did you catch on Saturday? Set up an equation for this scenario. DO NOT SOLVE IT.

 Let x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**YOU TRY:**

9) $\frac{a}{3}-\frac{5}{6}=\frac{1}{2}$

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 7
Chapter 4 – Expressions and Equations Worksheet #9

 **Solve and Check.**

1) 2f - 6.4 = - 8.68 **CHECK #1:** 2) ***For the*** ***word problem below,
 write an equation and solve.***
 A taxi service charges an initial
 fee of $3 plus $1.80 per mile.
 How many miles can you travel
 for $12?

3) At a bookstore, Tim bought a magazine for $4, and five books that each cost the same amount. He spent a total of $129. Which equation can be used to find the cost of each book?

 A) x = 129 - 4

B) 5x – 4 = 129

C) 5x + 4 = 129

D) 4x + 5 = 129

4 ) Solve and check the equation below. Show all steps.

 $-\frac{1}{3}+2c= \frac{4}{6}$ **CHECK #4:**