Name: _____

Date: _____

Section 8.3 Extra Practice

1. Identify the errors in each of the following, then correctly solve.

a) $0.4(x + 2.2) = 5.4$	b) $\frac{x+3}{5} = \frac{4}{7}$
0.4x + 2.2 = 5.4	$5\left(\frac{x+3}{5}\right) = \frac{4}{7}$
0.4x = 3.2	$x + 3 = \frac{4}{7}$
x = 8	$x = \frac{-17}{7}$

2. Solve each of the following. **a)** 2(x-4) = 12 **b)** 3(m+0.5) = -2.1 **c)** 1.2(x+1.3) = 2.4

d)
$$\frac{3}{4}(x-8) = 7\frac{1}{2}$$
 e) $\frac{x+14}{4} = 2\frac{1}{2}$ **f**) $\frac{x-2}{3} = \frac{-7}{18}$

Date: _____

4. Create an equation for each of the following. Then solve.

a) The perimeter of a square is 49.2cm. The side length of the square is represented by the expression (x + 4.1)cm. What is the value of x?

b) A fraction has the denominator of 20. The numerator has a value of "*x less than the denominator*". If the fraction is equivalent to $\frac{1}{4}$, what is the value of *x*?

c) Two cars leave Calgary at the same time, travelling in opposite directions. Their average speeds differ by 5km/h. After 2hrs they are 210km apart. Find the speed of each car?

d) A number, plus one-third of itself, plus one-eighth of itself, equals 70. What is the number?