Name: _____   Date: _____

Section 8.1 Extra Practice

1. Solve each equation. Use a number line.

a) $3x = \dfrac{3}{4}$ **b)** $\dfrac{c}{4} = \dfrac{-2}{3}$

2. Solve each equation. Use models of your choice to represent the solutions.

a) $3x = 0.6$ **b)** $2x = \dfrac{5}{2}$

3. Solve each equation algebraically.

a) $3x = \dfrac{2}{5}$ **b)** $\dfrac{m}{5} = \dfrac{-2}{3}$ **c)** $-4.5x = 1.35$

4. Solve each equation. Show a check of each solution.

a) $-4x = -4.96$ **b)** $\dfrac{x}{0.7} = 2.1$ **c)** $\dfrac{-5}{m} = \dfrac{1}{3}$

d) $\dfrac{x}{2.3} = 7.4$ **e)** $4m = \dfrac{-10}{3}$ **f)** $\dfrac{1}{-6} = \dfrac{-14}{m}$

5. Solve each problem.

a) Carol gave a 15% deposit on a diamond bracelet. The deposit was $73.50. What was the cost of the bracelet?

b) Eric earned $\dfrac{2}{5}$ of the profits of the canteen on the weekend. His earnings were $620. What was the total profit earned in the canteen?

c) The density of an object is determined by the formula $d = \dfrac{m}{v}$, where m is the mass, in grams, and v is the volume, in litres. What volume does the object occupy if an 8.58-g object has a density of 3.3 g/L?

d) Jamal received a 20% discount when he purchased his computer. He paid $920. What was the regular price of the computer?