

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Section 8.2 Extra Practice

1. Solve each of the following.

**a)**  $2x + \frac{1}{4} = \frac{1}{2}$

**b)**  $\frac{m}{2.5} + 1.5 = 0.8$

2. Solve each equation.

**a)**  $2\frac{3}{4} = 3m + \frac{1}{2}$

**b)**  $\frac{1}{2}x + \frac{1}{3} = \frac{7}{6}$

**c)**  $\frac{n}{-0.6} = 0.2n + 2.4$

**d)**  $3.4 + \frac{x}{1.4} = 4.5$

**e)**  $4c + \frac{2}{3} = \frac{-1}{6}$

**f)**  $-9.2 = 0.2x + 2.4$

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**3.** Create an equation for each of the following. Then solve.

**a)** When a number is tripled, then increase by 13, the result is 82. Find the number.

**b)** Jane spent \$42 for shoes. This was \$14 less than twice what she spent for a blouse. How much was the blouse?

**c)** The sum of two consecutive numbers is 37. What are the numbers?

**d)** The cost of a banquet at Nick's Catering is \$215 plus \$27.50 per person. If the total cost of a banquet was \$2827.50, how many people were invited.

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**e)** Jeff and Kristin live  $23.6 \text{ km}$  apart. They decide to cycle to the pool at the park, which is located between their homes. If Kristin lives  $5.2 \text{ km}$  closer to the park, how far did they each cycle?

**f)** Brooklyn has saved \$300 more than two-thirds of the cost of the down payment on a car. If he has \$1240 saved, how much is the down payment?