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Section 8.4 Extra Practice

1. Solve each of the following. \mathbf{b} $\mathbf{7}$ \mathbf{c} \mathbf{b} \mathbf{c} **a)** 0.4x = 5.58 - 0.2x

b)
$$7.2 + 2.3x = 3.2x$$

c)
$$\frac{x}{6} - \frac{9}{2} = \frac{2x}{3}$$
 d) $\frac{3}{2}m = m + 7$

e)
$$\frac{x+3}{2} = 10$$
 f) $1.4m = 1.5m - 0.57$

2. Solve each of the following. **a)** $\frac{1}{2}x - 1 = \frac{1}{4}x + \frac{3}{4}$ **b)** 1.3m + 64.2 = 2.7m + 12.82

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c)
$$5n - 6.4 = 3n + 2.6$$
 d) $\frac{z}{2} - 3 = 4 + \frac{2z}{3}$

e)
$$\frac{1}{4}x + \frac{1}{3}x = x + \frac{1}{6}$$
 f) $1.2c - 17 = 8 + 0.7c$

3. Solve each of the following.
a)
$$\frac{m+1}{2} = \frac{m-2}{5}$$
b) $0.3(2x - 1) - 2.3 = 0.04(x + 5)$

c)
$$5(2x + 1.2) = 4(x - 1.5)$$
 d) $\frac{4h-3}{3} = \frac{3+h}{2}$

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- **4.** Create an equation for each of the following. Solve your equation.
 - **a)** The length of a rectangular garden is 1m more than three times the garden's width. If the perimeter of the garden is 34m, find its dimensions.

b) The cash register in the school canteen contains q quarters and (30 - q) dimes. If the total value of the coins is \$5.85, how many of each kind of coin are there?

c) An employee mixes peanuts worth $\frac{2.80}{kg}$ with cashews worth $\frac{3.60}{kg}$. She sells the mixture for $\frac{3.12}{kg}$. If she has 75kg of peanuts, how many kilograms of cashews does she need?