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## Section 8.4 Extra Practice

1. Solve each of the following.
a) $0.4 x=5.58-0.2 x$
b) $7.2+2.3 x=3.2 x$
C) $\frac{x}{6}-\frac{9}{2}=\frac{2 x}{3}$
d) $\frac{3}{2} m=m+7$
e) $\frac{x+3}{2}=10$
f) $1.4 m=1.5 m-0.57$
2. Solve each of the following.
a) $\frac{1}{2} x-1=\frac{1}{4} x+\frac{3}{4}$
b) $1.3 m+64.2=2.7 m+12.82$
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c) $5 n-6.4=3 n+2.6$
d) $\frac{z}{2}-3=4+\frac{2 z}{3}$
e) $\frac{1}{4} x+\frac{1}{3} x=x+\frac{1}{6}$
f) $1.2 c-17=8+0.7 c$
3. Solve each of the following.
a) $\frac{m+1}{2}=\frac{m-2}{5}$
b) $0.3(2 x-1)-2.3=0.04(x+5)$
c) $5(2 x+1.2)=4(x-1.5)$
d) $\frac{4 h-3}{3}=\frac{3+h}{2}$
$\qquad$ Date: $\qquad$
4. Create an equation for each of the following. Solve your equation.
a) The length of a rectangular garden is 1 m more than three times the garden's width. If the perimeter of the garden is $34 m$, 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 $\$ 2.80 / \mathrm{kg}$ with cashews worth $\$ 3.60 / \mathrm{kg}$. She sells the mixture for $\$ 3.12 / \mathrm{kg}$. If she has 75 kg of peanuts, how many kilograms of cashews does she need?
