

## Section 2.1 Focus Exercises

1. Determine if the **replacement value** shown (after each equation) is a solution of that equation.

a)  $3p - 2 = 6$ ;  $p = 3$

b)  $9 - 3k = 7k - 11$ ;  $k = 2$

c)  $5m + (4 - m) = 3(m - 2) - 2$ ;  $m = -4$

d)  $\frac{1}{6}x - \frac{1}{3}x = \frac{x-6}{3}$ ;  $x = 12$

2. Solve each equation by isolating the variable. SHOW ALL STEPS!

a)  $p + 2 = 4$

b)  $x - 8 = 9$

c)  $y - 9 = -6$

d)  $b + 1 = -5$

e)  $r - 4 = -4$

f)  $w + 3 = 3$

g)  $m - \frac{5}{6} = \frac{9}{6}$

h)  $k + \frac{9}{12} = \frac{3}{12}$

i)  $y + 2 = -8$

j)  $c - 1 = -6$

3. Solve each equation by isolating the variable. SHOW ALL STEPS!

a)  $7x = 56$

b)  $9m = -63$

c)  $-6x = 24$

d)  $-12p = -36$

e)  $10x = 15$

f)  $5m = -9$

g)  $\frac{7}{3}x = 28$

h)  $\frac{3}{2}y = -30$

i)  $\frac{4}{7}n = -2$

j)  $\frac{5}{8}v = \frac{15}{4}$

k)  $\frac{y}{9} = 2$

l)  $\frac{7n}{8} = -1$

m)  $-6m = 4$

n)  $-8x = -18$

o)  $\frac{-6}{7}x = -12$

p)  $\frac{-5}{4}k = \frac{15}{2}$