

Unit 8 Solving Equations & Inequalities

8.4 Variable on Both Sides Equations

Ex. In a jar of coins there are 20 more nickels than quarters. The value of the nickels equals the value of the quarters. How many of each coin are in the jar?

Ex. Solve:

a) $\frac{2}{3}(2x - 1) = \frac{1}{2}(3x + 1)$

b) $\frac{2b}{3} - \frac{3}{4} = \frac{b}{6} + \frac{1}{2}$

c) $\frac{3f+1}{4} = \frac{3+2f}{2}$

Ex. John has saved \$35.50 and is saving an additional \$4.25 per week. Jane has saved \$24.25 and is saving an additional \$5.50 per week. In how many weeks will they have the same amount of money saved?