66.

1 $1.75
2 1.75(2)
3 1.75(3)
b 1.75 b

$1.75b + 2.45j = S$

$1.75(22) + 2.45j = 125$

$38.50 - 38.50 + 2.45j = 125 - 38.50$

$\frac{2.45j}{2.45} = \frac{86.50}{2.45}$

$j = 35.?$

35 jars

60. $T + \frac{S}{3} = R$ for S

$-T \quad -T$

$3 \cdot \frac{S}{3} = (R - T)3$

$S = 3R - 3T$

OR

$S = 3(R - T)$

54. $5m - 3(m-3) = 2(m+3)$

$5m - 3m + 9 = 2m + 6$

$2m + 9 = 2m + 6$

No Solution

36. $4x + 18 = x$

$-4x \quad -4x$

$\frac{18}{-3} = \frac{-3x}{-3}$

$-6 = x$

38. $15p + 4 = 5p$

$-15p \quad -15p$

$\frac{4}{-10} = \frac{-10p}{-10}$

$-\frac{2}{5} = p$

$4(x+3)-1 = 2x+8+2x$

$\rightarrow 4x+12-1 = 4x+8$

$\rightarrow 4x+11 = 4x+8$ (−4x)

$\rightarrow 11 = 8$ (−11)

$\rightarrow 0 \neq -3$

No Solution

$5x+2(x-4) = 6x-3(x+1)-5$

$5x+2x-8 = 6x-3x-3-5$

$7x-8 = 3x-8$ (−3x)

$4x-8 = -8$ (+8)

$\frac{4x}{4} = \frac{0}{4}$

$x = 0$

undefined $\frac{1}{0}$

$2x-(x-4) = 5x-4(x-1)$

$2x-x+4 = 5x-4x+4$

$x+4 = x+4$ (−x)

$4 = 4$

All Real Numbers

$\sqrt{-9}$

$3i$

$r = s - t$ $\quad -s \quad -s$

for t

$t =$

$r - s = -t$

$\frac{r - s}{-1} = \frac{-t}{-1}$

$-r + s = t$

$s - r = t$

$ab - cd = 0$ $\quad -ab \quad -ab$

for c

$-cd = -ab$

$\frac{-cd}{-d} = \frac{-ab}{-d}$

$c = \frac{ab}{d}$

$6 - 2x = 0$ $\quad -6 \quad -6$

$-2x = -6$

$\frac{-2x}{-2} = \frac{-6}{-2}$

$x =$

$2m - 3n = 0$ $\quad -2m \quad -2m$

for n

$-3n = -2m$

$\frac{-3n}{-3} = \frac{-2m}{-3}$

$n = \frac{2m}{3}$

$\frac{2}{3}\frac{m}{1}$

$\frac{2}{3}m$

$j = k - m$ for m

$-k \quad -k$

$\frac{j - k}{-1} = \frac{-m}{-1}$

$-j + k = m$

$xy - ab = 0$ for b

$-xy \quad -xy$

$\frac{-ab}{-a} = \frac{-xy}{-a}$

$b = \frac{xy}{a}$

$xy - ab = 0$ for y

$+ab \quad +ab$

$\frac{xy}{x} = \frac{ab}{x}$

$y = \frac{ab}{x}$

$\frac{3}{4}x + 2 = \frac{1}{2}x$

$-\frac{3}{4}x \quad -\frac{3}{4}x$

$-4 \cdot 2 = -4 \cdot -\frac{1}{4}x$

$\frac{2}{4} - \frac{3}{4}$

$-8 = x$