

4.2.5 #77-86 (skip 80)

4-77 Warm Up

+5

+2

+1

+1

+1

Score: /10

a.)

Amount	Value Φ
capped = c	capped = 4c
broken = b	broken = -2b
$c + b = 15$	$4c - 2b = 6$

b.) $2(c + b = 15)$

$$\begin{array}{r} 2c + 2b = 30 \\ + 4c - 2b = 6 \\ \hline 6c = 36 \\ \frac{6c}{6} = \frac{36}{6} \\ \boxed{c = 6} \end{array}$$

$$\begin{array}{r} (6) + b = 15 \\ -b \quad -b \\ \hline \boxed{b = 9} \end{array}$$

$$\begin{array}{r} \sqrt{4(6) - 2(9) = 6} \\ 24 - 18 = 6 \\ b = 6 \end{array}$$

Erica has capped 6 bottles and broken 9 bottles.

<u>4-78</u>	Method	Problem Letter
	EVM	
	Substitution	
	Elimination	

4-79 Choose 1 problem from each method in #78 to solve.