

7.

$$\begin{array}{r} +15 - \frac{n}{7} = +13 \\ \hline -15 \quad -15 \end{array}$$

D		U
$\div 7$		$-15$
$+15$		$\cdot 7$

$$\frac{\cancel{7}}{1} \cdot \frac{-n}{\cancel{7}} = -\frac{2}{1} \cdot \frac{7}{1}$$

$$(-1) -n = -14 (-1)$$

$$\boxed{n=14}$$

$$6.) \quad -4 = \frac{9}{8} - 19$$

$$\begin{array}{r|l} D & U \\ \hline \div 8 & +19 \\ -19 & \cdot 8 \end{array}$$

## 4-6 Writing Equations

 $m$  = Marisol's lunch $m + 5$  = Ivy's lunch

$$\begin{array}{r} \text{Marisol's} = \$8.50 \\ \text{Ivy's} = 13.50 \\ \hline \$22.00 \checkmark \end{array}$$

Sum  $m + m + 5 = 22$

simplified  $2m + \cancel{5} = 22$   
 $\cancel{-5}$   $\cancel{-5}$

$$2m = \frac{17}{2}$$

$$m = \$8.50$$

D	U
$\cdot 2$	$-5$
$+5$	$\div 2$

Equation  
= variable  
one operation  
-----  
you can solve it!

Begin by defining your variable. Look at  
the question.

$n = \text{Xavier \# of shirts}$

$$2n - 4 = 6$$

$$\underline{\underline{2n = 10}}$$

$$\textcircled{n = 5}$$

$$\begin{array}{r|l} D & u \\ \div 2 & +4 \\ -4 & \div 2 \end{array}$$

less than than

less than  
what

$\square - 4$

$y = \text{the } \#$

$$\frac{y}{-3} + \cancel{8} = \cancel{-24}$$

$$\cancel{-8} \cdot \frac{y}{-3} = \cancel{-32} \cdot \cancel{-3}$$

$$y = +96$$

quotient means  
divide

8 more than  
more than what  
 $\square + 8$

1A.  $x = \text{a number}$

$$3x + \cancel{4} = -26$$

$\cancel{-4}$  $\phantom{=}$  $\phantom{-26}$  $\phantom{-4}$

$$\begin{array}{r|l} D & U \\ \hline -3 & -4 \\ +4 & \div 3 \end{array}$$

$$\frac{3}{3}x = -\frac{30}{3}$$

$$\boxed{x = -10}$$

1B.  $n = \#$  of stickers Molly has

$$2n - 6 = 24$$

$$24 = 2n - 6$$

$$n = 15$$

D		U
• 2		+ 6
- 6		÷ 2



1c.

$$\frac{n}{7} + 6 = 12$$

$$n = +42$$

D		U
$\div 7$		-6
+6		+7

$d = \text{amt. last month}$

$$\begin{array}{r} 4d + 8 = 141 \\ -8 \quad -8 \\ \hline 4d = 133 \\ \frac{4}{4} \end{array}$$

$$d = 33.25$$

$$\begin{array}{r|l} D & U \\ \hline +3 & -8 \\ +8 & \div 3 \end{array}$$

last month  
 $d$

this month  
 $3d + 8$

$$\begin{array}{l} d + 3d + 8 \\ 4d + 8 = 141 \end{array}$$