

48.) $I =$ Illinois record low

$$I + 7 = -29$$
$$\begin{array}{r} I + 7 = -29 \\ -7 \quad -7 \end{array}$$

$$\begin{array}{r|l} D & U \\ +7 & -7 \end{array}$$

$$I = -36$$

44.)

 $C = \text{cost of paper}$

$$1.25 + 6.49 + C = 8.79$$

$$\begin{array}{r} \cancel{\$ 7.74} + C = 8.79 \\ - \cancel{7.74} \quad \quad - 7.74 \\ \hline \end{array}$$

$$\begin{array}{r|l} D & U \\ \hline + 7.74 & - 7.74 \end{array}$$

$$C = \$1.05$$

1-9 Solving Multiplication and Division Equations

Undo
Solve

Inverse Operations
do the opposite

Do	Undo
write it out.	<u>solve</u> inverse operation

operation	\times	\div inverse
	\div	\times
	$+$	$-$
	$-$	$+$

$$\frac{35}{\cancel{35}} d = \frac{210}{\cancel{35}}$$
$$1d = 6$$
$$\textcircled{d = 6}$$

Do	Undo
$\cdot 35$	$\div 35$

a)

$$\frac{8}{8}x = \frac{72}{8}$$

$$x = 9$$

$$\begin{array}{r} D/U \\ \cdot 8 \quad | \quad \div 8 \end{array}$$

$$\begin{array}{r} \cancel{+4} \overline{2} = \frac{28}{\cancel{+4}} \\ \hline \cancel{-9} \overline{1} = \frac{-9}{\cancel{-9}} \end{array}$$

$N = \textcircled{-7}$

$$\begin{array}{r} \cancel{-4} \overline{n} = \frac{28}{\cancel{-4}} \\ \hline \end{array}$$

$n = \textcircled{-7}$

$$\begin{array}{r} D \overline{6} \\ \cdot \cancel{-4} \overline{1} = \frac{6}{\cancel{-4}} \end{array}$$

$$\begin{array}{r} -12 = -6k \\ \hline -6 \quad -6 \\ \hline 2 = k \end{array}$$

$$\begin{array}{r} D | U \\ \hline -6 \quad | \quad -12 \\ \hline \end{array}$$
$$\begin{array}{r} -6k = -12 \\ \hline k = 2 \end{array}$$

$$\frac{a}{-3} = -7$$

$$\uparrow \frac{1}{-3} a = -7$$

$$\therefore -\frac{1}{3} a = -7$$

$$a = 6$$

$$\frac{1}{3}(6) = 2$$

$$\frac{6}{3} = 2$$

$$\frac{\cancel{-3}}{1} \cdot \frac{a}{\cancel{-3}} = -7 \cdot \cancel{-3} \quad \begin{array}{l} D \mid U \\ \hline -3 \mid x - 3 \end{array}$$

$|a| = 21$

$$d.) \quad \frac{\cancel{-4} \cdot y}{\cancel{-4}} = -8 \cdot -4 \quad \div \begin{array}{l|l} D & U \\ -4 & x - 4 \end{array}$$

$$y = 32$$

$$\frac{\cancel{A} \cdot y}{\cancel{-A}} = \frac{-8}{1} \cdot \frac{-4}{1}$$

$$y = \frac{32}{1} = 32$$

$$\frac{1}{4} \cdot \frac{4}{1} = 1$$

$$\cancel{5} \cdot \frac{m}{5} = -9.5$$

$$\begin{array}{c|c} D & U \\ \hline \cdot 5 & \cdot 5 \end{array}$$

$$m = -45$$

$$30 = \frac{b}{-2} \quad \div (-2) \quad \begin{array}{l} D \\ U \end{array}$$
$$\underline{-60 = b}$$