Solutions to WS 12.2 - More Solving Two-Step Equations, #1-20 all

$$\begin{array}{ccc}
\hline
1 & 8 - 4d = 12 \\
-8 & -8 \\
-4d = 4 \\
\hline
-4 & -4
\end{array}$$

$$\begin{array}{c}
-4d = 4 \\
\hline
-4 & -4
\end{array}$$

$$2 - 11 - 10f = -41
+11 + 11
-10f = -30
-10 -10$$

3
$$5.3 = -b + 1.8$$

 -1.8 -1.8
 $\frac{3.5}{-1} = \frac{-b}{-1}$
 $-3.5 = b \implies b = -3.5$

$$99 = 7 - \frac{1}{4}$$
 $-7 - 7$
 -7
 -4
 $2 = -\frac{1}{4}$
 $-8 = 1 \implies j = -8$

(5)
$$12h - 2.5 = -26.5$$

 $+2.5 + 2.5$
 $\frac{12h}{12} = -\frac{24}{12}$
 $h = -2$

$$61-4n = 65$$

$$-1 - 1$$

$$-4n = 64$$

$$-4 - 4$$

$$(n = -16)$$

$$\frac{3}{4} \frac{b}{4} - 3.2 = 12.3$$
 $+3.2 + 3.2$
 $(4) \cdot \frac{b}{4} = 15.5$

(8)
$$12-f = 22$$
 -12
 $-f = 10$
 -1
 $f = -10$

$$90.5y + 5.2 = -2.8$$

$$-5.2 - 5.2$$

$$0.5y = -8$$

$$0.5$$

$$y = -16$$

$$\begin{array}{c|c}
\hline
10 & -18 & = -42 + 12 \\
-12 & -12 \\
-30 & = -42 \\
\hline
-30 & = -42 \\
\hline
-42 & = -42 \\
\hline
-42 & = -42 \\
\hline
-30 & = -42 \\
\hline
-42 & = -42 \\
\hline
-30 & = -42 \\
\hline
-42 & = -42 \\
\hline$$

$$\begin{array}{c|cccc}
\hline
11 & -p + 10 = -25 & \hline
2 & 12 = -\frac{c}{6} + 3 \\
-10 & -10 & -3 & -3 \\
-\frac{p}{-1} & = -35 & -6 & -9 & -6
\end{array}$$

$$\begin{array}{c|cccc}
-p & = -35 & -6 & -9 & -6 & -6 \\
\hline
-1 & -1 & -1 & -54 & -7 & -9
\end{array}$$

$$\frac{3}{-8} = -10$$

$$-8 - 8$$

$$(-3) \cdot -\frac{h}{3} = -18 \cdot (-3)$$

$$(h = 54)$$

$$\begin{array}{r}
(4) \ 0.75q + 2.5 = -6.5 \\
-2.5 \quad -2.5 \\
\hline
0.75q \quad = -9 \\
\hline
0.75 \quad 0.75
\end{array}$$

$$\begin{array}{r}
(9 = -12)
\end{array}$$

(b)
$$-1.25q - 12.5 = 8.35$$

 $+12.5 + 12.5$
 $+12.5 + 12.5$
 $-1.25q = 20.85$
 $-1.25 = -16.68$
(-2) $-\frac{1}{3} = \frac{4}{5}$
 $-\frac{1}{5} = \frac{4}{5}$

$$\begin{array}{c|c} 20 & 11 - 29 = 5 \\ -11 & -29 = -6 \\ -29 & -2 \end{array}$$