Warm - Up
Solve the following equation:

$$
\begin{gathered}
\frac{4}{5} x-2 \not 0=-3 \\
+20 \\
\frac{5}{4} \times \frac{4 x}{5} x=\frac{17}{1} \cdot \frac{5}{4} \\
x=\frac{85}{4} \\
x=21 \frac{1}{4}
\end{gathered}
$$

Evaluate the expression

$$
-x^{2}-3 y \text { when } x=-3 \text { and } y=-5
$$

$$
-(-3)^{2}-3(-5)
$$

$$
-9+15
$$

## Solving Multi Step Equations

$$
\begin{aligned}
& 3(x+4)=27 \\
& 3 x+1 x=27 \\
& \frac{3 x}{3}=\frac{15}{3} \\
& x=5 \\
& 7 x+2(-4 x+6)=162 \\
& 7 x-8 x+12=162 \\
& \begin{aligned}
-x+12 & =162 \\
-\sqrt{2} & .12
\end{aligned} \\
& \pm_{-1} x=\frac{150}{-1} \\
& x=-150 \\
& \begin{aligned}
-7 x+9 x+4 & =20 \\
2 x+4 & =20 \\
-4 & -4
\end{aligned} \\
& \frac{8}{2}=\frac{16}{2} \\
& x=8 \\
& \left\{\begin{array}{r}
3-4(2 x-1)=23 \\
-1(3 x-1)=23
\end{array}\right. \\
& 3-8 x+4=23 \\
& \begin{aligned}
-8 x+h & =23 \\
-h & -7
\end{aligned} \\
& \frac{-8 x}{-8}=\frac{16}{-8} x=-2
\end{aligned}
$$

$$
\begin{array}{r}
\text { You Try! } \\
\begin{array}{r}
3(3 x-7)+4 x=26 \\
9 x-21+4 x \\
13 x-26
\end{array}=26 \\
+h 1+21 \\
\frac{18 x}{13}=\frac{47}{13} \\
\begin{array}{r}
x=\frac{47}{13}, 3 \frac{8}{13}
\end{array} \\
2 \cdot \frac{4 x+8}{2}=-64 \cdot 2
\end{array} \begin{array}{r}
4 x+8=-128 \\
-88=-8 \\
4 x=-\frac{136}{4} \\
x=-34
\end{array}
$$

$$
\begin{aligned}
& 2(x+3)-5(x-1)=32 \\
& 2 x+6-5 x+5=32 \\
&-3 x+y=32 \\
&-11-11 \\
&-3 x=\frac{21}{-3} \\
& x=-7
\end{aligned}
$$

