Method 2: The Distributive Property First:
Isolate the variables. Going Fishing
$4(s+8)=600$
$4 s+32=600$
-32


Practice again but using the distributive property:


Let's do one more together...
$-4(x-7)=16$

$$
\begin{array}{r}
-4 x+28=16 \\
-28-28
\end{array}
$$



The amount of food energy per day required by hikers is modelled by the equation $e=-123(t-$ 122), where $e$ is the amount of food energy, in kilojoules (kI) and $\underline{t}$ is the outside temperature in degrees Celsius.
a) If the outside temperature is $-20^{\circ} \mathrm{C}$. how much food energy is required per day?
b) If a hiker consume 19000 kJ food energy based on the outside temperature what is the temperature?

$$
\begin{aligned}
& \frac{e}{e}=-123(t-122) \\
& e=-123(-20-122) \\
& e=17466
\end{aligned}
$$

$$
\frac{3994}{-123}=\frac{-123 t}{-123}
$$

The energy 1517466 KJ .
b)

$$
19000=-123(t-122)
$$

$$
\begin{array}{r}
19000=-123 t+15006 \\
-15006 \\
-15006
\end{array}
$$

$$
-32^{\circ} \mathrm{C}=t
$$

The temperature is

$$
-32^{\circ} \mathrm{C}
$$

