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 (kJ) and *t* is the outside temperature in degrees Celsius.

1. If the outside temperature is -20°C, how much food energy is required per day?
2. If a hiker consumes 19 000kJ of food energy based on the outside temperature, what is the temperature ?

**Practice again but using the distributive property :**

-2 ( *x* – 3) = 12 -20 = 5(3 + *p*)

Let’s do one more together…

-4( *x* -7) = 16

**Method 2:** The Distributive Property First:

Isolate the variable *s.*

4(*s* + 8) = 600