Method 2: The Distributive Property First:

$$4(s+8) = 600$$

$$4s + 32 = 600$$

$$-4(x-7) = 16$$

$$-4x + 28 = 16$$

$$-4x = -12$$

Practice again but using the distributive property:

$$-2(x-3)=12$$

$$-2x+6=12$$

$$-2x = 6$$

$$\int X = -3$$

$$-20 = 5(3 + p)$$

$$-20 = 15 + 5x$$

The amount of food energy per day required by hikers is modelled by the equation e = -123(t - 1)122), where e is the amount of food energy, in kilojoules (kJ) and \underline{t} is the outside temperature in degrees Celsius.

a) If the outside temperature is 20°C, how much food energy is required per day?

b) If a hiker consumes 19 000kl by food energy based on the outside temperature, what is the

temperature?

$$e^{-123}(t-122)$$

$$e = -123(-20 - 122)$$

 $e = -123(-142)$

The energy 1817 466 KJ.

$$6) \quad 19000 = -123(t-122)$$

$$19000 = -123 + 15000$$

$$-18006$$

$$\frac{3994}{-123} = \frac{-1236}{-123}$$

The temperature is