Function Machines

Can you use the following mathematical symbols to work out what happens in the function machines? Use either $\times$ or $\div$

$\begin{align*}
2 & \rightarrow \times 4 \rightarrow = 8 \\
8 & \rightarrow \rightarrow = 2 \\
2 & \rightarrow \rightarrow = 12 \\
12 & \rightarrow \rightarrow = 2 \\
6 & \rightarrow \rightarrow = 30
\end{align*}$

Remember that **multiplication** can also mean: times and lots

Remember that **division** can also mean: shared between and put into groups of.
Please answer the following questions:

2 x 8 =
6 ÷ 2 =
10 x 8 =
80 ÷ 8 =
8 x 5 =
16 ÷ 8 =

Do you recall that multiplication is the inverse of division—it is the opposite.

So, \( \frac{8}{4} = 2 \) (8 sweets shared by 4 people means that each person gets 2 each). Therefore those 4 people each have 2 sweets which combined means that the total number of sweets is 8! (\( 4 \times 2 = 8 \))