

NAME:.....

DATE:.....

Function Machines

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

$$2 \rightarrow \boxed{\times 4} \rightarrow = 8$$

$$8 \rightarrow \boxed{} \rightarrow = 2$$

$$2 \rightarrow \boxed{} \rightarrow = 12$$

$$12 \rightarrow \boxed{} \rightarrow = 2$$

$$6 \rightarrow \boxed{} \rightarrow = 30$$

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



Remember that **division** can also mean: shared between and put into groups of .

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$$30 \rightarrow \left(\begin{array}{c} \text{ } \\ \text{ } \end{array} \right) \rightarrow = 6$$

$$8 \rightarrow \left(\begin{array}{c} \text{ } \\ \text{ } \end{array} \right) \rightarrow = 16$$

$$16 \rightarrow \left(\begin{array}{c} \text{ } \\ \text{ } \end{array} \right) \rightarrow = 4$$

$$20 \rightarrow \left(\begin{array}{c} \text{ } \\ \text{ } \end{array} \right) \rightarrow = 10$$



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

So, $8 \div 4 = 2$ (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! ($4 \times 2 = 8$)

Please answer the following questions:

$2 \times 8 =$

$6 \div 2 =$

$10 \times 8 =$

$80 \div 8 =$

$8 \times 5 =$

$16 \div 8 =$