

Find a Rule – One Step

1. Using the function below, complete the outputs for each input.

Function: $\div 4$

Input:

Output:

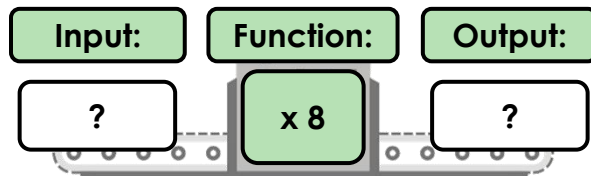
- A. \rightarrow
- B. \rightarrow
- C. \rightarrow

VF

4. Four of the cards are inputs or outputs of the function machine below.

Circle the odd one out.

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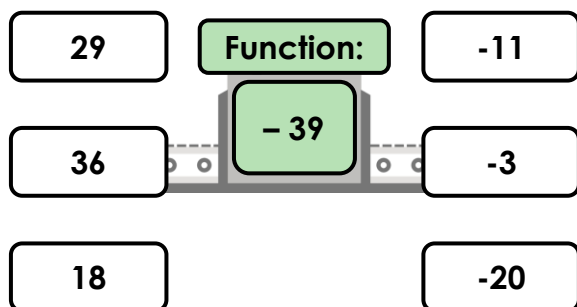
Explain your reasoning.

R

2. Tick the incorrect outputs below.

Inputs:

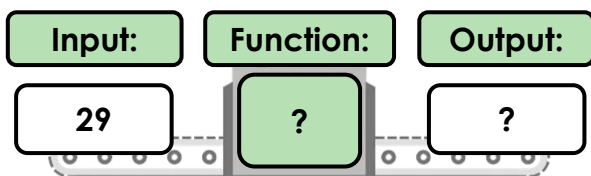
Outputs:



VF

5. If Becca has 29 Mogimon cards and Aron has more than 23, but less than Becca, how many Mogimon cards could he have?

What function could be used to show this?



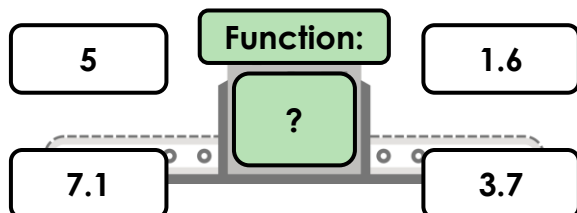
Find 3 possible solutions.

PS

3. Circle the function being used in the function machine below.

Inputs:

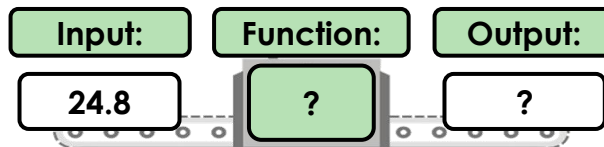
Outputs:



- A. $- 4.2$ B. $\div 3$ C. $- 3.4$

VF

6. Asma and Luke want to create the smallest output number.



Asma

I think the function 'subtract 18.9' should be used.



Luke

I think the function 'divide by 4' should be used.

Who do you agree with? Explain why.

R

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1. A. 31; B.19; C. 104
2. Ticks for -11 and -20
3. C
4. 34 is the odd one out. $3.5 \times 8 = 28$ and $4.2 \times 8 = 33.6$. $4.25 \times 8 = 34$, but there is no number card for 4.25 (to match 34).
5. Various answers, for example: – 5, Aron would have 24 cards; – 4, Aron would have 25 cards; – 3, Aron would have 26 cards.
6. Asma is correct. This is because $24.8 \div 4 = 6.2$, whereas $24.8 - 18.9 = 5.9$, and 5.9 is less than 6.2.