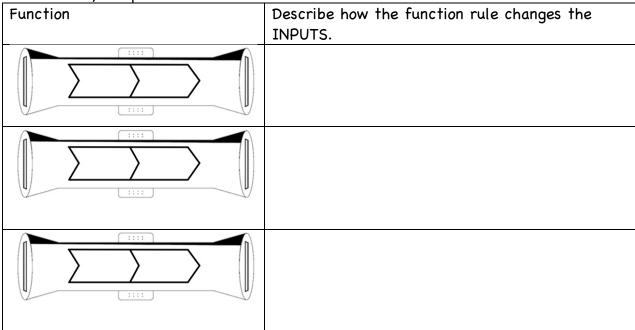
Describing Functions

Learning Goals

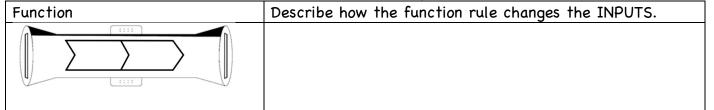
- Describe a function rule using words.
- Compare the verbal description of a function to its algebraic form.
- Write function rules in algebraic form.
- **EXPLORE -** Open the Function Builder simulation and explore. What do you notice? 1.

2. BUILD - Go to the Numbers screen and build 3 multistep functions. Describe your function. *Use a variety of operations*

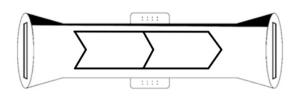


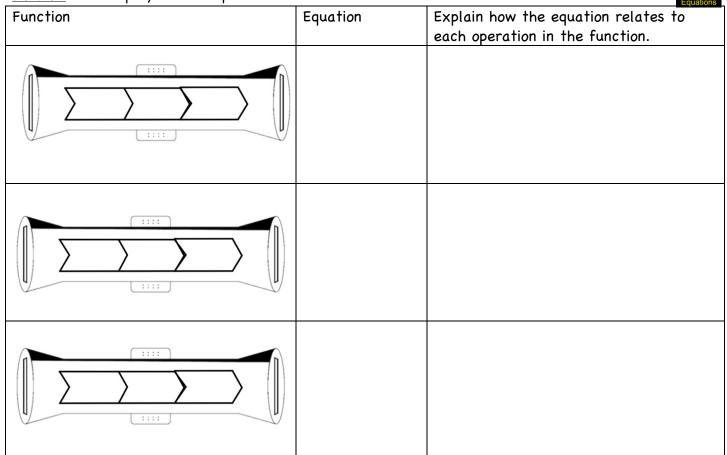
3. SHARE - Compare your functions with a partner. Record one of your partner's functions below and describe how the function rule changes the INPUTS.

Choose a function that is different from the ones that you created



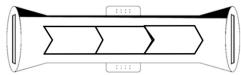
*Challenge – Can you build a function that always has the same output?





5. DISCUSS – With your partner, discuss how you think the function below changes the INPUTS. Fill in the function rule with the correct operations.

$$y = \frac{3(x+1)}{-2}$$



6. CHALLENGE - On the Equations screen, create a three-step function using a variety of operations. Click the hide button. Can your partner guess your function rule?

7. WRITE - Go back to the functions that you built in #2. Write an equation to model those functions.

 $y = \frac{2}{3}x$