

Name: \_\_\_\_\_

Wednesday

### Math Practice: Understand Patterns (3.OA.9)

Study the function machine. Find the output.

$$8 \rightarrow \left( + 15 \right) \rightarrow \underline{\quad}$$

$$42 \rightarrow \left( + 25 \right) \rightarrow \underline{\quad}$$

$$21 \rightarrow \left( + 32 \right) \rightarrow \underline{\quad}$$

$$35 \rightarrow \left( - 30 \right) \rightarrow \underline{\quad}$$

$$86 \rightarrow \left( - 17 \right) \rightarrow \underline{\quad}$$

$$39 \rightarrow \left( - 13 \right) \rightarrow \underline{\quad}$$

Study the function machine. Find the input.

$$\underline{\quad} \rightarrow \left( + 3 \right) \rightarrow 43$$

$$\underline{\quad} \rightarrow \left( + 18 \right) \rightarrow 20$$

$$\underline{\quad} \rightarrow \left( + 20 \right) \rightarrow 62$$

$$\underline{\quad} \rightarrow \left( - 26 \right) \rightarrow 48$$

$$\underline{\quad} \rightarrow \left( - 14 \right) \rightarrow 28$$

$$\underline{\quad} \rightarrow \left( - 1 \right) \rightarrow 19$$

Study the function machine. What might be the rule?

$$6 \rightarrow \left( \underline{\quad} \right) \rightarrow 12$$

$$15 \rightarrow \left( \underline{\quad} \right) \rightarrow 30$$

$$7 \rightarrow \left( \underline{\quad} \right) \rightarrow 21$$

$$23 \rightarrow \left( \underline{\quad} \right) \rightarrow 69$$

$$18 \rightarrow \left( \underline{\quad} \right) \rightarrow 27$$

$$30 \rightarrow \left( \underline{\quad} \right) \rightarrow 17$$