

# Multiply with Function Machines

Read the rule for each Function Machine and then complete the tables. Use your multiplication table and base-ten shorthand to help you.

1. Rule: Multiply by 30

Input	Output	Number Sentence
4		
10		
7		
3		

2. Rule: Multiply by 50

Input	Output	Number Sentence
3		
	100	
5		
8		

3. Rule: Multiply by 200

Input	Output	Number Sentence
6		
9		
	600	
5		

**4.** Rule: Multiply by 400

Input	Output	Number Sentence
8		
	800	
4		
6		

**5.** Luis solved  $5 \times 400$ .



When I multiply a number by a multiple of 100, I just multiply the first digits in each number together and then add two zeros to the answer. I think  $5 \times 400 = 200$ .

**A.** Use base-ten shorthand below to check Luis's work.

**B.** Explain another way to solve  $5 \times 400$ .

**C.** Do you agree with Luis? If not, what would you say to Luis to help him?