

Investigating Input-Output Tables

NCTM Standards 1, 2, 6, 8

Complete the tables.

1

INPUT	2	5	1	3	0	4
Add 3	5					
Multiply by 2	10					
Subtract 6	4					
MACHINE OUTPUT	4					

2

INPUT	2	5	1	3	0	4
Multiply by 3	6					
Subtract the Input	4					
MACHINE OUTPUT	4					

Every week you earn a certain amount of money.
You put half in the bank and spend half.

- 3 If you earned \$6 each week, how much money would you have spent by the end of 4 weeks? Show your work.

- 4 If you earned \$8 a week instead, how much money would you have been able to spend after 4 weeks? Show your work.

- 5 If you have spent \$40 after working for 4 weeks, how much money did you earn each week? Explain.

Complete the tables.

6	INPUT	4	3	5	9		
	Multiply by 10	40				70	
	Divide by 5					14	20
	MACHINE OUTPUT					14	20

7 MAKE YOUR OWN.



7	INPUT	4	5	0	7			
	Multiply by 6					60		
	Divide by 3						24	
	MACHINE OUTPUT							



8 Find a one-step rule that would give the same outputs for the same inputs as the two-step rule shown in Problem 7.

9 **Challenge** Complete the table.

MAKE YOUR OWN.



9	INPUT	14	20	30			
	Subtract 8				17		
	Multiply by 2					60	
	Add 16						
	MACHINE OUTPUT						