

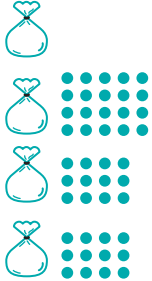
# Introducing Negative Outputs

NCTM Standards 1, 2, 8, 9, 10

**Complete the tables.**

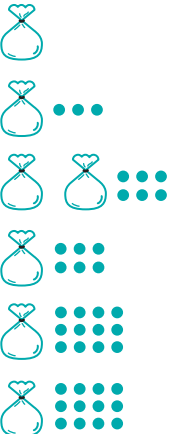
**1**

<b>INPUT</b>	4	6	10	7	35	18
Add 20	24	26				
Subtract 8	16					
<b>MACHINE OUTPUT</b>	16					



**2**

<b>INPUT</b>	4	6	10	7	3	8
Add 3	7					
Multiply by 2	14					
Subtract the Input	10					
Add 6						
<b>MACHINE OUTPUT</b>						



**3** The temperature in the evening was 7° less than the temperature in the afternoon. Use the table to record some possible afternoon and evening temperatures.

Afternoon							
Evening  - 7							

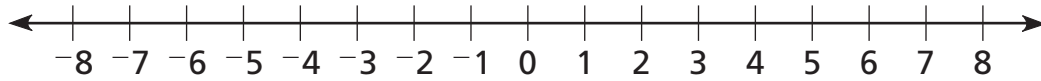
**4** Suppose the temperature was 0°F in the afternoon. What would the new temperature be in the evening after it dropped 7°? Explain how you found the answer.

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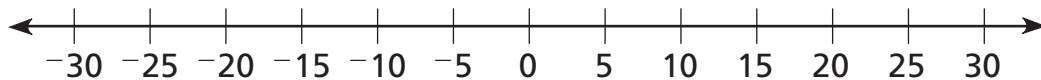
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Use the number lines to complete the tables. Fill in the shorthand rules.



5	INPUT	6	8	4	1	2	0		
	OUTPUT	0	2	-2				-4	- 6

6	INPUT	4	7	1	3	2	0	-4	
	OUTPUT	1	4	-2					- _____



7	INPUT	15	10	8	20	0	-10		
	OUTPUT	6	1	-1				-25	- _____

8 For Problem 7, explain how you found the input when the output was -25.

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9 **Challenge** Complete the table and shorthand rule.

INPUT	72	14	-8	24	31			
OUTPUT	22	-36	-58			-3	-104	- _____