

Name: Class:

Add and subtract integers input output tables

What is the rule to complete the table? Complete the table

1.

(In)input	output (out)
- 15	_____
1	21
4	24
11	31
_____	33

Use the complete rows to find the missing rule.
 You see that the rule makes each number increase.
 Hence, use addition

2. What is the rule to complete the table ?

(In)input	output (out)
19	13
8	_____
1	- 5
-4	- 10
-18	-24
-21	_____

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1.

(In)input	output (out)
-15	_____
1	21
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use the complete rows to find the missing rule
you see that the rule makes each number increase.
Hence, use addition



let the rule be x
pick any number from the complete
row in the In row and add x to it
 $= 4 + x = 24$
Solve the equation
 $4 + x = 24$
 $x = 24 - 4 = 20$

therefore, since $x = 20$ the rule = Add 20
now use the rule (20) to complete the table
 $-15 + 20 = 5$
 $\underline{\hspace{2cm}} + 20 = 33$
 $\underline{\hspace{2cm}} = 33 - 20 = 13$
Note that: if the rule is decreasing
Hence; you subtract to find the rule

2.

(In)input	output (out)
19	13
8	_____
1	-5
-4	-10
-18	-24
-21	_____

use the complete rows to find the missing rule
you see that the rule makes each number decrease
Hence, use subtract



let the rule be x
pick any number from the complete
row lets pick -4 and -10
 $= -4 - x = -10,$
 $-10 + 4 = -6$
 $x = 6$
So, since $x = 6$
it implies the rule = subtract 6