Algebra

Complete the table. Then write a rule for the table in words.

- INPUT
 1
 7
 6
 8
 11
 4
 15
 x

 OUTPUT
 3
 21
 18
 24
 11
 4
 15
 x
- 2 INPUT 2 7 10 4 12 8 16 *x*OUTPUT 11 16 19 13
- INPUT
 12
 21
 9
 27
 36
 42
 24
 x

 OUTPUT
 4
 7
 3
 9
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- 4
 INPUT
 1
 4
 3
 5
 8
 9
 6
 x

 OUTPUT
 1
 10
 7
 13
 9
 6
 x

Reasoning and Proof

Follow the steps to complete each number puzzle.

Steps	Shorthand	5	6	7
Think of a number.	Х			
Multiply by 4.	4 <i>x</i>			
Add 2.	4x + 2			
Multiply by 2.	8x + 4			
Subtract 4.	8 <i>x</i>			
Divide by 4.	2 <i>x</i>			