Na	me
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Creating Equations with Two or More Variables-Step-by-Step Lesson

1. Which equation gives the rule for this table?

	Х	f(x)	
	4	14	
	5	15	
a) $f(x) = x + 10$			0 b) $f(x) = 3x + 10$

**Explanation:** Linear functions are of the form y = mx + b

First find m. Look at the table and notice that every time the x terms go up by 1, the y terms go up by 1. This means that m is equal to 1.

4

y=mx + b	
14 = 1(4) + b	plug in m=1,x=4,and y= 1
14 = 4 + b	
b = 10	
y = mx + b	y = 1x + 10
14 = 4 + 10	
14 = 14	

Plug in (5, 15)

Y = x + 10 15 = 5 + 10 15 = 15 Y = x + 10 15 = 5 + 10 15 = 15So y = x + 10 is correct.

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