Name	
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Date

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Algebra: Skill 5 - 18D

Functions

Example

Joey makes \$3 an hour washing cars.	Number of hours	1	2	3	4	5
How much does he make in 5 hours?	Money earned	3	6	9	12	15

You can use a table to show the relationship between how many hours Joey works and how much he earns. The amount he earns is equal to 3 times the number of hours that he works. This relationship between the amount he earns and the number of hours he works is a function. The table above is a function table.

You can use an equation to show the above function.

Step 1	Step 2	Step 3
Define the variables.	Write an equation.	How much does Joey earn in 5 hours?
let <i>x</i> equal the number of hours Joey works	<i>y</i> (the amount he earns) = 3 times <i>x</i> (the number of hours he works)	<i>y</i> = 3 times 5.
let <i>y</i> equal the amount Joey earns	y = 3x	<i>y</i> = 15

Number of hours = <i>x</i>	1	2	3	4	5	Put
Money earned = <i>y</i>	3	6	9	12	15	equ

Put the variables from the equation in the function table.

x	1	2	3	4	5
у	3	6	9	12	15

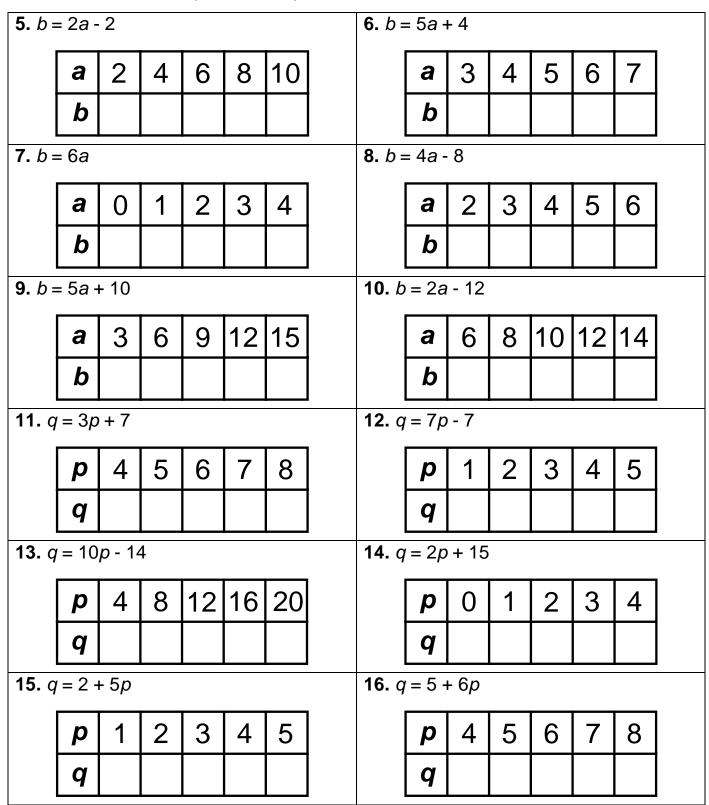
Directions: Use each equation to complete each function table.

1. $y = 2x$		This function table is partially completed for you.						2. <i>y</i> = 3 <i>x</i>						_	
	x	1	2	3	4	5			X	1	2	3	4	5	
	У	2	4						У						
3. $y = 2x$ 4. $y = 2x + 2$															
	X	5	6	7	8	9			X	0	1	2	3	4	
	У								У						

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Directions: Use each equation to complete each function table.



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Answer Key: Grade 5: Skill 18D

1. $y = 2x$	2. $y = 3x$	3. y = 2x	4. $y = 2x + 2$
x 1 2 3 4 5	x 1 2 3 4 5	x 5 6 7 8 9	x 0 1 2 3 4
y 2 4 6 8 10	y 3 6 9 12 15	y 10 12 14 16 18	y 2 4 6 8 10
5. b = 2a - 2	6. <i>b</i> = 5 <i>a</i> + 4	7. b = 6a	8. b = 4a - 8
a 2 4 6 8 10	<i>a</i> 3 4 5 6 7	a 0 1 2 3 4	a 2 3 4 5 6
b 2 6 10 14 18	<i>b</i> 19 24 29 34 39	b 0 6 12 18 24	b 0 4 8 12 16
9. b = 5a + 10	10. b = 2a - 12	11. $q = 3p + 7$	12. $q = 7p - 7$
a 3 6 9 12 15	a 6 8 10 12 14	p 4 5 6 7 8	p 1 2 3 4 5
b 25 40 55 70 85	b 0 4 8 12 16	q 19 22 25 28 31	q 0 7 14 21 28
13. $q = 10p - 14$	14. $q = 2p + 15$	15. $q = 2 + 5p$	16. $q = 5 + 6p$
p 4 8 12 16 20	p 0 1 2 3 4	p 1 2 3 4 5	p 4 5 6 7 8
q 26 66 106 146 186	q 15 17 19 21 23	q 7 12 17 22 27	q 29 35 41 47 53

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