

Name: _____

Date: _____

BLM 6-5

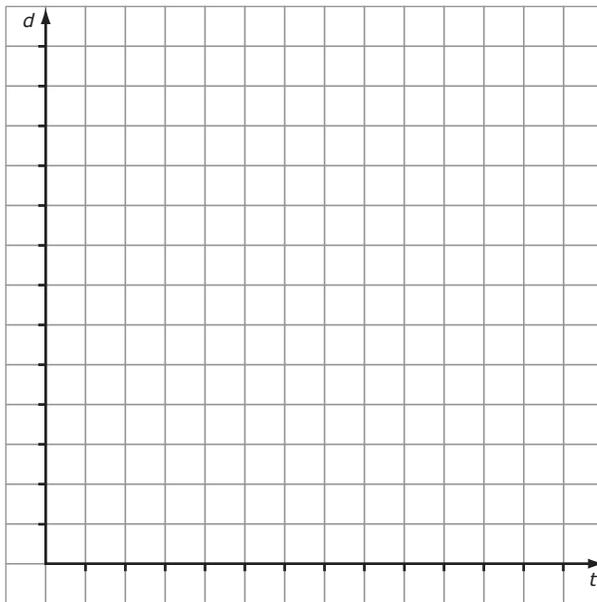
Section 6.3 Extra Practice

1. Suri drives at an average speed of 90 km/h. The equation relating distance, d , and time, t , is $d = 90t$.

a) Complete a table of values to represent the relation.

t	d

b) Show the relationship on a graph.



c) How long does it take Suri to drive 630 km?



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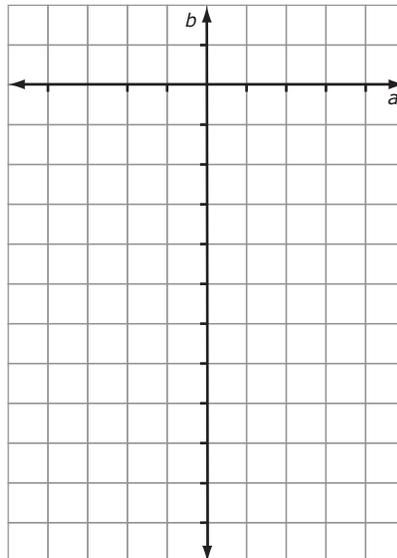
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(continued)

2. For each linear equation, create a table of values and a graph.

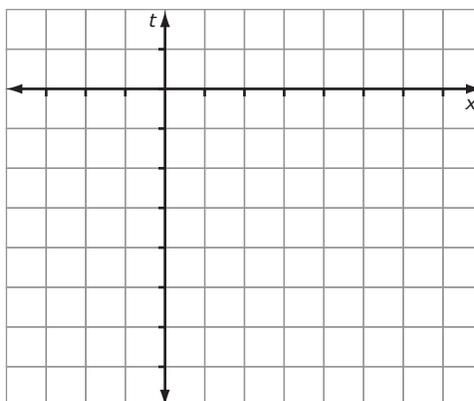
a) $b = -2a - 15$ $b = -2(-2) - 15$
 $= 4 - 15$
 $= \underline{\hspace{2cm}}$

<i>a</i>	<i>b</i>
-2	
-1	
0	
1	
2	
3	



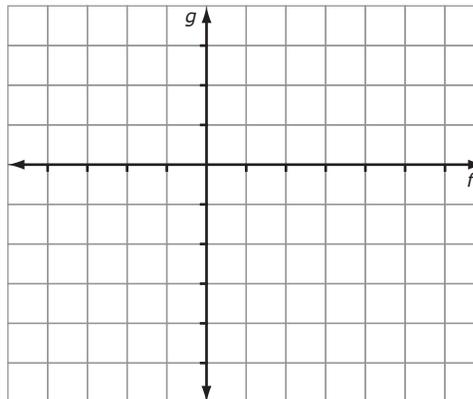
b) $t = -3$

<i>x</i>	<i>t</i>



c) $g = \frac{f}{4} - 2$

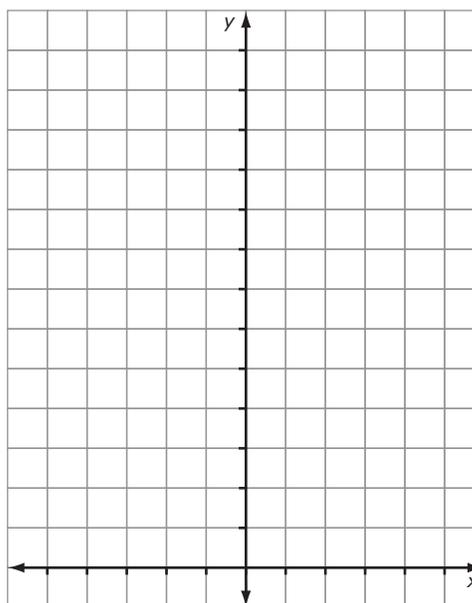
f	g
-8	
-4	
0	
4	
8	
12	



3. Create a graph and a linear equation to represent each table of values.

a)

x	y
-3	4
-2	4
-1	4
0	4
1	4
2	4
3	4



Equation: _____



Name: _____

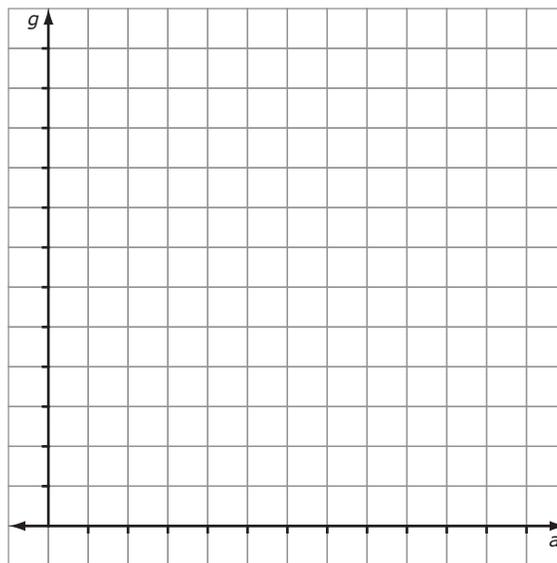
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(continued)

b)

<i>a</i>	<i>g</i>
10	13
11	15
12	17
13	19
14	21
15	23

<i>a</i>	Pattern: _____	<i>g</i>
10	$\times 2 - \text{_____} \rightarrow$	13
11	$\times 2 - \text{_____} \rightarrow$	15
12	$\times 2 - \text{_____} \rightarrow$	17
13	$\times 2 - \text{_____} \rightarrow$	19
14	$\times 2 - \text{_____} \rightarrow$	21
15	$\times 2 - \text{_____} \rightarrow$	23



Equation: _____



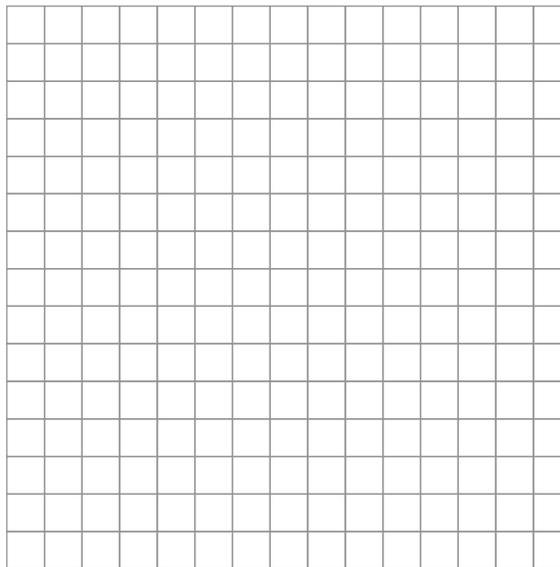
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(continued)

c)

<i>t</i>	<i>d</i>
0	4
1	1
2	-2
3	-5
4	-8
5	-11



<i>t</i>	Pattern: _____	<i>d</i>
0	× _____ + _____ →	
1	× _____ + _____ →	
2	× _____ + _____ →	
3	× _____ + _____ →	
4	× _____ + _____ →	
5	× _____ + _____ →	

Equation: _____

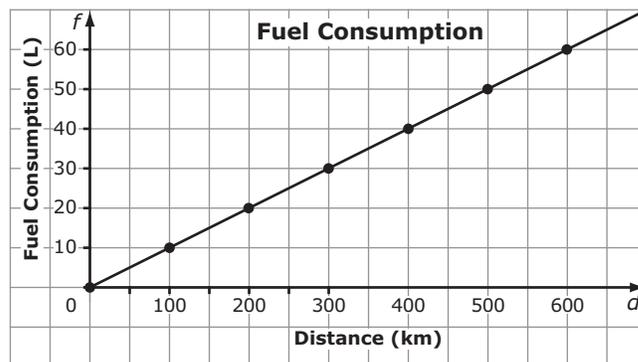


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(continued)

4. The graph shows the relationship between the fuel consumption and the distance driven, in kilometres.
 f = fuel consumption in L
 d = distance driven in km



- a) Complete the table of values for the graph.

Distance, d	Pattern: _____	Fuel Consumption, f

- b) Write the linear equation.

- c) How far could you drive with 35 L of gas?

- d) Is it appropriate to interpolate or extrapolate values on this graph? Circle INTERPOLATE or EXTERPOLATE or BOTH. What assumption is being made? Explain.

An *assumption* is something you think is true.

