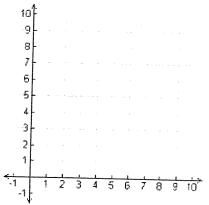
Name:			_ Date:			Sectio	n:	
	Link Shee	et - MCAS 2012	- Scaled I	Map (d	3612Q12	or)		
Story			Questions					
Jan is using a trip. The scale shown below.	map to plan a tw for the map she	vo-day hiking is using is	1) How m	any milo	es is 12	inches	on the	map?
	Scale 1 inch: $\frac{1}{2}$ mile		2) How ma	any inch	nes on t	he maj	o repre	sents 1
Picture Mod	el: Please labe	l model below to	show the sc	ale				
Inches 1				uic.				
Å								
Miles $\frac{1}{2}$						L		
Data Table			Graph					
Using the scale,	please fill in the f	following table.	Plot 4 poin	ts on th	e grant	halou	, Bo cu	ro to
Inches	Function	Miles	label the x-	axis and	r Prakic	י אכוטא	. De su	ie to
0				101		•		

Osing the scale, please fill in the following table. Inches Function Miles 0 1/2 2 2 3 4 5 6 7 7 8 8 9 9 10 11 12 12

Bonus: Write out the algebraic equation for the table above.



Bonus: Based on the scale Jan used, how many feet are represented by 1 inch on the map? Show or explain how you got your answer. (1 mile = 5280 feet)

Hint: Replace 5280 feet at 1 mile on the grid or graph.

Name:	Date:
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2012 Spring Release, Mathematics - Grade 6

Question 12: Open-Response

Reporting Category: Measurement

Standard: Mathematics. 6.RP. 1.03 - Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

Standard: 6.M.3 - Solve problems involving proportional relationships and units of measurement, e.g., same system unit conversions, scale models, maps, and speed.



Jan is using a map to plan a two-day hiking trip. The scale for the map she is using is shown below.

Scale							
1							
1 inch: $\frac{1}{2}$ mile							

- a. The distance that Jan will hike on the first day is equal to 12 inches on the map. What is the actual distance, in miles, that Jan will hike on the first day? Show or explain how you got your answer.
- b. The actual distance that Jan will hike on the second day is $5\frac{1}{2}$ miles. What distance on the map, in inches, represents $5\frac{1}{2}$ miles? Show or explain how you got your answer.
- c. Based on the scale Jan used, how many feet are represented by 1 inch on the map? Show or explain how you got your answer. (1 mile = 5280 feet)