Section 3.5: Arithmetic Sequences Practice Worksheet				Nan	Name:	
Determine whether each sequences is an arithmetic sequence.						
1.	0, 2, 5, 9, 14,	2.	37, 34, 31, 28,	3.	$-\frac{1}{3}, -\frac{17}{6}, -\frac{16}{3}, \dots$	
Find the next three terms of each arithmetic sequence.						
4.	10, 13, 16, 19,	5.	-14, -19, -24,	6.	$\frac{3}{5}, \frac{7}{10}, \frac{4}{5}, \dots$	
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Use the arithmetic sequence formula to help solve each problem.						
7.	3, 7, 11, 15,		-5, -7, -9,	9.	$\frac{2}{9}, \frac{5}{9}, \frac{8}{9}, \dots$	
					999	
	38 th term		71 st term		24 th term	
10.	10. An arithmetic sequence has a common difference of -4 and its 37^{th} term is 10. Find the first term.					

11. How many total terms are there in the following sequence?

7, 10, 13, ..., 391, 394

13. A sequence has an 81st term value of 6 and a 48th term value of 138. What is the first term?

- 14. Zariah's 100 meter dash times for her first four races were 14 seconds, 13.4 seconds, 12.8 seconds, and 12.2 seconds.
 - i) Assuming race times will decrease at the same rate. Write an equation for the arithmetic sequence (Hint: find a_1 and d first.)
 - ii) What will the time for her 12th race be?
 - *iii) When will she have a time of 11 seconds for the 100 meter dash?
- 15. Lauren opened a bank account with an initial \$500. She is depositing \$45.20 per week into her bank account.
 - i) Assuming she continues to deposit \$45.20 per week. Write an equation for the arithmetic sequence (Hint: find a_1 and d first.)
 - ii) How much money will she have in her bank account after 15 weeks?
 - *iii) When will she have at least \$2000 in her bank account?