Name	Date	Class
LESSON Practice A		
4-6 Arithmetic Sequence	S	
Determine if the sequence is arithmet	ic. Write <i>yes</i> or <i>no</i> .	
<b>1.</b> 5, 9, 14, 20,	<b>2</b> . 10, 22, 34, 46	· • • • •
Find the common difference for each	arithmetic sequence.	
<b>3.</b> 12, 15, 18, 21,	<b>4.</b> 30, 24, 18, 12	·, ···
Find the common difference for each the next three terms.	arithmetic sequence. The	en find
<b>5.</b> 20, 10, 0, -10,	<b>6.</b> 100, 98, 96, 9	4,
Find the indicated term of each arithm	netic sequence.	
7. 42nd term: $a_1 = 10$ ; $d = 6$	<b>8.</b> 27th term: 59,	, 56, 53, 50,
A swim pass costs \$30 for the first m cost is \$20 per month. Riley wants to 9. The sequence for this situation is ar	swim for 12 months.	at, the
first term of this sequence?	minienc. What is the	
<b>10.</b> What is the common difference?		
11. The 12th term will be the amount Ri one year swim pass. Write the equatotal cost of a one year swim pass.		

**12.** What is the total amount of money Riley will spend for a one year swim pass?

TEKS A.3.B



## Practice B LESSON

## Arithmetic Sequences

Determine whether each sequence is an arithmetic sequence. If so, find the common difference and the next three terms.

Find the indicated term of each arithmetic sequence.

7. 37th term: 
$$a_1 = -3$$
;  $d = 2.8$ 

8. 14th term: 
$$a_1 = 4.2$$
;  $d = -5$ 

**9.** 17th term; 
$$a_1 = 2.3$$
;  $d = -2.3$ 

**10.** 92nd term; 
$$a_1 = 1$$
;  $d = 0.8$ 

- 11. A movie rental club charges \$4.95 for the first month's rentals. The club charges \$18.95 for each additional month. How much is the total cost for one year?
- 12. A carnival game awards a prize if Kasey can shoot a basket. The charge is \$5.00 for the first shot, then \$2.00 for each additional shot. Kasey needed 11 shots to win a prize. What is the total amount Kasey spent to win a prize?