

Name: _____ Period: _____

Week 26 Homework Packet – 7th Grade Math Honors

ASSIGNMENT DUE FRIDAY, FEBRUARY 24, 2017

Unit 4, Chapter 7 – Algebraic Expressions

For each problem below, you will answer the question given, then describe, using complete sentences, how you were able to arrive at the answer. An example has been done for you.

Ex.) Consider the sequence 12, 19, 26, 33, ...
What is the 27th term of the sequence? How do you know that your answer is correct?

The 27th term is 194. I know because each term can be found by multiplying the position of the term by 7, then adding 5. When I multiply 27×7 , I get 189. Then I add 5 to get 194.

1) Consider the sequence 10, 14, 18, 22, ... What are the next three terms in the sequence? Describe how you were able to get the answer.

2) For the sequence 5, 8, 11, 14, ... What is the 1000th term in the sequence? How do you know that your answer is correct?

3) For the sequence 23, 21, 19, 17, ... What are the next three terms in the sequence? Describe how you were able to get the answer.

SCORE
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Stamp

Evaluate each expression below if $a = 3$, $b = 8$, and $c = -4$. **SHOW ALL WORK!** An example has been done for you to show you how to show work.

Ex.) $3a - c$
 $3(3) - (-4)$
 $9 + 4$
 13

4) $2b - a$

5) $a^2 + b$

6) ab

7) $b(c + 2)$

8) c^2

9) $\frac{b}{c} + a$

10) $4a - 2b$