

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Week 28 Homework Packet – 7<sup>th</sup> Grade Math Honors

**ASSIGNMENT DUE TUESDAY, MARCH 7, 2017**

Unit 4, Chapter 7 - Algebraic Expressions

Add or subtract the following expressions:

1)  $(2c - 4d) - (3c + 5d)$

2)  $(3k + 7) - (2k - 3)$

3)  $(4w + 5) + (-4w - 3)$

4)  $(x - 4y) - (-5x + 4y)$

5)  $(-3a + 7b) + (-6a - b)$

6)  $(10s - 4t) - (2s - 4t)$

7)  $(3g + 11) - (2g + 4h - 3)$

8)  $(4m - 3n + 5) - (2m - 6n + 2)$

SCORE  
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Stamp

Write a simplified expression to find the  $n$ th term of each arithmetic sequence shown below.

9) 12, 14, 16, 18, 20, ...

10) 8, 13, 18, 23, 28, ...

11) 5, 13, 21, 29, 37, ...

12) 4, 10, 16, 22, 28, ...

13) 3, 6, 9, 12, 15, ...

14) -3, 0, 3, 6, 9, ...

15) 17, 13, 9, 5, 1, ...

16) -3, -9, -15, -21, -27, ...

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**ASSIGNMENT DUE WED/THU, MARCH 8/9, 2017**

Unit 4, Chapter 7 - Algebraic Expressions

Factor the following expressions. If it cannot be factored, write "prime."

1)  $3a + 12b$

2)  $15k - 25$

3)  $20x - 50y$

4)  $24m + 10n$

5)  $36y + 30$

6)  $25a + 16b$

7)  $12c - 20d^2$

8)  $24x^2 - 36y^3$

Simplify the following expressions. Show all work!

9)  $3(x + 3y) - (2x - 4y)$

10)  $-2(-a + 3b) + (4a - b)$

11)  $3(2r + 5) - 2(r - 1)$

12)  $(3c + 4d) + \frac{1}{2}(6c - 8d)$

13)  $-(3y - z) + (4y + 6z)$

14)  $2r(r + 5) + 4r$

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**ASSIGNMENT DUE FRIDAY, MARCH 10, 2017**

Unit 4, Chapter 7 - Algebraic Expressions

Factor the following expressions. If it cannot be factored, write "prime."

1)  $6ab + 9b^2$

2)  $10x^2 + 25xy - 20y^2$

3)  $16c^2 + 24c - 12$

4)  $14m^3 + 21mn^2$

5)  $35cd - 18d^2$

6)  $24h^2 - 10hk + 15k^2$

7)  $18s + 12st$

8)  $21p + 33p^2q$

Write the first five terms of the sequence described by the expression given.

9)  $5n - 3$

10)  $2n + 4$

11)  $6n$

12)  $4n - 4$

13)  $\frac{1}{2}n + 3$

14)  $0.1n + 5$

15)  $-3n + 7$

16)  $-8n - 2$