

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

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

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

Unit 3, Chapter 5 – Expressions

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Add the following expressions together and write your answer in simplified form.

1)  $(2x + 4) + (3x + 7)$

2)  $(4m - 3) + (5m + 7)m$

3)  $(-3a + 9) + (10a - 7)$

4)  $(4r - 3) + (r + 3)$

5)  $(2k + 11) + (-8k - 4)$

6)  $(7w + 3) + (8w - 19)$

7)  $(2a - 4b + 7) + (3a - 10)$

8)  $(3x - 7y + 10) + (-2x + 6y - 8)$

Simplify each of the following using all of the properties of algebra that we have used so far. Show each step.

9)  $4(8m + 6) + (m - 2)$

10)  $-3(7 - 2x) + (x - 2)$

11)  $5(3a + 1) + (2 - 4a)$

12)  $3(r + 7) + 7(2r - 3)$

13)  $(4 - 9n) - 2(5n - 3)$

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

Unit 3, Chapter 5 – 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)  $(3g + 11) - (2g + 4h - 3)$

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

8) 5, 9, 13, 17, 21, ...

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, ...

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

Unit 3, Chapter 5 – Expressions

Simplify the following expressions. Show each step!

1)  $3(2a + 4b) - 2(a - 3b)$

2)  $4(3x - y) - (7x - 4y)$

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

4)  $(4m + 7n - 6) - (3m - 8n - 12)$

5)  $2(3s - 4t) + (5s + 6t)$

6)  $(2h - 4k + 7) - 2(3h + 3)$

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

7)  $5n - 3$

8)  $2n + 4$

9)  $6n$

10)  $4n - 4$

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

12)  $0.1n + 5$

13)  $-3n + 7$

14)  $-8n - 2$