

Name: _____ Period: _____

Week 27 Homework Packet – 7th Grade Math Honors

ASSIGNMENT DUE TUESDAY, FEBRUARY 28, 2017

Unit 4, Chapter 7 – Algebraic Expressions

SCORE
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WEEK SCORE
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Use the distributive property to simplify each expression below.

1) $4(x + 5)$

2) $-3(m + 2)$

3) $x(y + 3)$

4) $-5(q - 4)$

5) $2(x + y + 4)$

6) $3(2x - 3y)$

7) $-4(2m - 5n)$

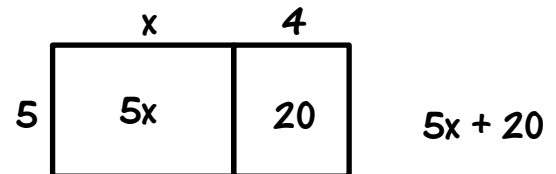
8) $\frac{1}{2}(4x - 6y + 3)$

9) $2a(4b + 3c - 5)$

10) $-(2c - 4d)$

For each problem below, use boxes to describe how the distributive property can be used to simplify an expression, then write the simplified expression. An example has been done for you.

Ex.) $5(x + 4)$



11) $3(m + 7)$

12) $4(k - 2)$

13) $2(x + y + 5)$

14) $3(a + b - 1)$

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ASSIGNMENT DUE WED/THU, MARCH 1/2, 2017

Unit 4, Chapter 7 - Algebraic Expressions

Simplify each expression below by combining like terms. Show all steps.

1) $3a + 7a + a + 9 + 10$

2) $b + 7 + 4b + 10$

3) $3m + 8n + 2m - 3n$

4) $3c + 7d + 2 + 5c + 10d$

5) $9h - 3h + 10k - k + h$

6) $3a + 2(a + 7)$

7) $4(x + 7) - 4x$

8) $-2(m - 4) + 3m$

9) $5 - 2(x + 4)$

10) $10g - 3(-2g - 6)$

Skills Review

Add or subtract the following fractions by finding the least common denominator. Show all work.

11) $\frac{2}{5} + \frac{1}{4}$

12) $\frac{1}{3} + \frac{1}{6}$

13) $\frac{3}{7} - \frac{1}{2}$

14) $\frac{2}{3} - \frac{1}{8}$

15) $\frac{3}{4} + \left(-\frac{1}{8}\right)$

16) $\frac{5}{6} - \frac{3}{4}$

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ASSIGNMENT DUE FRIDAY, MARCH 3, 2017

Unit 4, Chapter 7 - Algebraic Expressions

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

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

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

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