Common Core- Unit 3 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.EE Review Part 3 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_

**6.EE.5**

Kallie’s family is going to the zoo. The family budget is $75.00. It costs $47.50 for the family of 3 to get into the zoo. They decide to buy lunch at the zoo.

• 1) Write a “let” statement for your variable. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

• 2) Write an inequality that represents Kallie’s family zoo trip situation.

• 3) How much can the family spend on lunch?

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**Write an inequality for each sentence:**

4) To prepare for Friday’s test, you should study a minimum of 15 minutes. Write this as an inequality.

5) No less than 210 students attended the last dance.

6) A number decreased by 5 is now at most 74.

**6.EE.8**

7) The bus taking students who sign up for the Saturday Trip to NYC can hold at the most 56 people. Write the inequality and represent it on a number line.

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**6.EE.3**

8) Jane thinks that the expression 15*n* + 9*y* is equivalent to  3(5*n* + 6y). Do you agree? Explain your reasoning.

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6.EE.4:

9) Create 4 equivalent expressions for 4w + 12. Be sure to state the number of terms each one has and show one of them using distributive property.

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10) Simplify: 7x – 3 + 4x + 5 – x + 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11) Which of the following represent equivalent expressions?  (Circle if equivalent and explain why)

a.    *x* + *x* + *x* + *x* =  4*x* b.   15*y* + 5*x* = 3 (5*y* + *x*)

c.    6 ( 2 + *x* ) = 12 + 6*x* d.   3( *x* + *y* ) = 3*x* + *y*

Show a simpler way to describe the expression using as few terms as possible.  How do you know the simpler way is equivalent to the original?

12) 4 - 3*x* + 17 + 9*x \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

13) 8*y +* 9*x* - 7*x*2 - 2*y* + 6 - 3*x \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

Deconstruct the following to show equivalent expressions with four terms and six terms:

14) 4w - 10 *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

15) 6*x*2 - 3*y* + 8 *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*