Math 7R – Spiral Review #19 DUE BY: May 25th

Pencil only!

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Mrs. Frascatore

**Number of Attempts**: **(3 max)**

* 1st attempt \_\_\_\_\_\_\_\_
* 2nd attempt \_\_\_\_\_\_\_\_

3rd attempt (graded as is) \_\_\_\_\_\_\_

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period \_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_

**Directions**: ***Show work*** on all problems, *unless noted*. Show work top to bottom, left to right. Calculators may be used, *unless otherwise indicated*. Attach additional sheets of work if needed. Label and BOX ANSWERS.

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| **1.** Simplify the following expression. ***No calculators.***  6(x - 2y) + 6x - 2(7x - 3y) | **2.** Convert the following mixed number its decimal equivalent using long division. ***No calcs.*** | **3.** Sam deposited $3,000 into a savings account that earned an annual interest rate of 2.5%. If Sam keeps the money in the account for 15 years, how much money will he earn in interest? |
| **4.** Solve the following inequality and graph your solution set. ***No calculators.***  -5e > -65 | **5.** a) What is the additive inverse property?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  b) Fill in the missing values to make each statement true.  i) 7 + \_\_\_\_\_ = 0  ii) \_\_\_\_\_ + (-21) = 0  iii) -19 + 19 = \_\_\_\_\_ | **6**. A bicycle wheel has a diameter of 26 inches. To the nearest inch, what is the distance one rotation of the wheel? |
| **7.** Ava buys applesauce for *x* dollars. The cost of the applesauce is taxed 8%. Write and simplify an expression for Ava’s total cost of the applesauce.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **8.** Measure each of the following angles using a protractor. Write the angle measure in the angle. Be sure to label.  a)  b) | **9.** Ms. Hernandez has $100 to spend on parking and admission to the zoo. The parking will cost $7, and admission tickets will cost $15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people, *p*, that she can bring to the zoo, including herself. |

**10.** A museum opened at 8:00 a.m. In the first hour, 350 people purchased admission tickets. In the second hour, 20% more people purchased admission tickets than in the first hour. Each admission ticket cost $17.50.

What was the total amount paid for all the tickets purchased in the two hours?