Math 7R – Spiral Review #20 DUE BY: June 8th

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.** Solve the given equation and show check.-2x – 4 = 8x – 24**Ck:** | **2. Part A** Simplify the given expression.4(3x – 7y) - 2x**Part B** Factor your simplified expression from Part A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **3.** Find the **volume** of the following rectangular prism.**V = Bh****Related image** |
| **4.** In the United States, 0.75% of people have Celiac Disease. If the population of the US is approximately 320,000,000 people, how many people have the disease?  | **5**. The cost of a gallon of gasoline, *g*, is marked up 15%. Write and then simplify an expression to represent the new cost. ***No work needed to be shown here.***Expression \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Simplest terms \_\_\_\_\_\_\_\_\_\_\_\_***OVER 🡪******OVER 🡪*** | **6**. Tom made a scale drawing of his rectangular living room. The scale used was 1 in. = 2 ft. Tom’s drawing was 4 in by 6 in. What is the **area** of Tom’s living room? [Area =  x w] ***OVER 🡪*** |
| **7.** Find the **surface area** of the given rectangular prism.Image result for rectangular prism images | **8.** Borris saved $60.50 in 5 weeks. If he saved an equal amount each week, how much money would he save in 8 weeks? ***No calculators.*** | **9.** The price of gasoline rises from $2.50 per gallon to $2.65 per gallon. What is the percent increase? ***No calcs.*** |

**10.** Find the **surface area** of the square pyramid.



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