MATH 7 Spiral Review NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Week 1 (due 1/23/20) CORE \_\_\_\_\_\_\_\_\_\_\_\_\_

Show all your work on the back or attach notebook paper. Calculator use allowed. **PUT FINAL ANSWER IN BOX**

1. Mike purchases a round wall clock. The clock’s radius is 10 cm. What is the circumference of his clock?
2. Samantha can write 1.5 pages in 3 minutes. How many pages could she write in 12 minutes?
3. You find a triangle that has an area of 10 square feet. The height of the triangle is ten feet. What is the length of the base of the triangle?
4. Isaac used ¼ of an ounce of nuts to make 1/12 pound of cake. How many ounces of nuts are needed to make a cake?
5. Lin wants to buy a new Mercedes. The Mercedes wheel has a diameter of 70 inches. What is the area of the wheel?
6. Bobbi made cookies. The circumference of the cookies is 8 cm. What is the diameter of the cookies (rounded to the nearest hundredth)?
7. An oversized colorful puzzle cube (like a Rubik’s cube) has a surface area of 36 square inches. What is the volume of the puzzle cube?
8. Sam’s parents gave him a map to reach his house. He is 1.5 cm from his home. If each 3 cm on the scale drawing equals 5 km, how far is he from the house?
9. There is a wood shop that make boats. The number of boats constructed can be determined by the equation B = .04w, where B is number of boats and w is number of wooden logs used. Identify the constant of proportionality.
10. Jordan buys a big drum. The diameter of the drum is 3 feet. What is the radius of the drum?

THIS is a ***MAJOR GRADE***. 5 Points off each day if late.

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MATH 7 Spiral Review NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Week 2 (due 2/6/20) CORE \_\_\_\_\_\_\_\_\_\_\_\_\_

Show all your work on the back or attach notebook paper. Calculator use allowed. **PUT FINAL ANSWER IN BOX**

1. Helen wants to buy round plates for her mom. The radius of the plate is 1 ft. What is the plate’s circumference?
2. A beaver burrows 10 holes every 5 minutes. How many holes will it burrow if the time is increased to 25 minutes?
3. A machine makes 20 carpets in a day. After oiling the machine, its efficiency will go up by 150%. How many carpets will be produced at this level?
4. The scale of a map is 4ft = 16 mile, what would be the distance on the map if the actual distance between the 2 cities = 80 miles
5. Gabe fills 1/3 of a water bottle in 1/6 of a minute. How much time will it take him to fill the bottle?
6. A grocer can buy strawberries for $1.38 per pound. Write an equation relating c (the cost) and p (pounds) of strawberries.
7. A 50 cm piece of wire is bent into a circle. What is the area of the circle?
8. If a graph shows the following representation of pounds of chocolate consumed by # of people. What would be the constant of proportionality? 3 people- 6lbs; 9 people- 18lbs; 15 people- 30 lbs.
9. A school had 1200 students last year and only 1080 students this year. What was the percentage decrease in the # of students?
10. Jen puts $1750 in a savings account for 2 years that offers a 4% interest rate. What is the ending balance in her account after 2 years?

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MATH 7 Spiral Review NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Week 3 (due 2/13/20) CORE \_\_\_\_\_\_\_\_\_\_\_\_\_

Show all your work on the back or attach notebook paper. Calculator use allowed. **PUT FINAL ANSWER IN THE BOX.**

1. Angela goes to the garden. A circular fountain with a 10m radius lies alone in the center of the circular park with a 200m radius. What is the total walking area available to the park visitors?
2. Jack has a box with the height of 15in, width of 11in and a length of 7in. What is the volume of the box?
3. The scale of a map is 4cm = 18mi. If the distance between 2 cities on the map is 6.8cm, how many miles is it from city 1 to city 2?
4. Fred has a garden. The number of flowers in the garden can be determined by the equation F = 2B, where F is the number of flowers and B is the number of bulbs Fred has planted. What is the constant of proportionality?
5. Michael plays 1/5 of a song in 1/15 minutes. How much time will it take him to play an entire song?
6. A car is 180 inches long. A truck is 75% longer than the car. How long is the truck?
7. Jada borrowed $1000 for a new bike but had to pay back $1100. How much interest did she have to pay?
8. The population of City A was approximately 243,000 people and it increased by 8% in one year. What was the new population?
9. Tyler works in a shoe store. He earns commission. He makes 2.5% of the amount he sells. Last week, he sold $900 worth of shoes. How much was his commission?
10. Today everything at a store is on sale. The store offers a 20% discount. If the regular price of an item is X dollars, what is the discount price in dollars?

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MATH 7 Spiral Review NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Week 4 (2/20/20) CORE \_\_\_\_\_\_

**Show all your work** on the back or attach notebook paper.  Calculator use allowed. **Put final answer in box**

1. Last week the price of pears at the store was $1.15 per pound.  This week the price increased by 20%. What is the price of pears this week?
2. A recipe for sparkling apple juice calls for ⅞ qts of sparkling water and ⅔ qts of apple juice. How much sparkling water would you need to mix with 8 qts of apple juice?
3. Josh made a round cookie cake.  The radius of the cake is 8 cm. What is the circumference of the cake?
4. What is the formula for calculating interest?
5. Your family went out to Red Robin last Friday.  The bill was $56.25. If tax is 8% and tip was 18%, what was the total bill?
6. If the government adds a % on each item at the grocery store, what is that term?
7. A recipe says that 2C of dry rice will serve 6 people. If there are going to be 129 people at the banquet, how many cups of rice will the caterer need to make?
8. What is the constant of proportionality in this equation?

T = 0.0625W

1. Write 2 different ratios that are equivalent to 7:3.
2. A local park is in the shape of a square.  A map of the local park is made with the scale of 1 inch to 200 feet.  If a straight path in the park is 900 feet long, how long would the path be when represented on the map?

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Week 5 (2/27/20) CORE \_\_\_\_\_\_\_\_\_\_\_

**Show all your work** on the back or attach notebook paper.  Calculator use allowed. **Put final answer in box**

1. Last week the price of oranges was $2.15 per lb.  This week, the price has increased by 15%. What is the price of the oranges this week?
2. You start a savings account with $1500 at a rate of 5% for 18 months. What will your ending balance be after the 18 months?
3. Everything at the store is 20% off today.  T-shirts are regularly priced $18. What is the sale price?
4. The scale of a map is 7in = 14.4mi.  If the actual distance between 2 cities is 24.6mi, what is the distance on the map?
5. **5A.** The following is the amount Harry earned for selling cups of ice cream.  Do these numbers represent a proportional relationship?

Cups sold Earnings ($)

3 12

5 20

7 28

**5B**. How do you know?

1. 21 x \_\_\_\_ = 7
2. What is the height of a triangle if the area is 6 sq.inches and the base is 3in.?
3. 6 x \_\_\_ = 9
4. Greg drinks 6 liters of water over 2 days. In how many days would he consume another 12 liters?

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