

Incoming 7th Grade Students Summer Math Assignment

Directions: To practice the math skills you will need to know in 7th grade math, complete the following math problems. You do not need to print the problems out, but you must hand in the RECORDING SHEET to show your answers. Make sure you show ALL WORK and put your answers in the box provided.

This assignment will be graded and a part of your 1st marking period grade.

DUE DATE: September 13th, 2019

late assignments will be deducted 10 points per day

If you have any questions regarding this assignment, please contact Mrs. Sinkhorn at ksinkhorn@wlschools.com.

If you do not have internet access over the summer or need access to a printer, the following resources are available to you:

- Math Support Sessions held at school (check the FAS website for dates)
- West Long Branch Public Library

<p>1: Last year the boys' baseball team had 8 fifth grade students and 7 sixth-grade students. What was the ratio of sixth-grade students to fifth-grade students on the team?</p>	<p>2: The ratio of daisies to roses in a garden is 20:1. Does this garden have more roses or more daisies in the garden?</p>	<p>3: Sabrina's car used 12 gallons of gas to travel 456 miles. How many miles did her car travel per gallon of gas?</p>
<p>4: Trina babysat 2 hours each night for 10 nights. She earned a total of \$180 babysitting. Trina wants to calculate her hourly rate. How much did Trina earn per hour babysitting?</p>	<p>5: Daniel ran laps every day at the community track. He ran 45 minutes each day, 5 days each week, for 12 weeks. In that time, he ran 1,800 laps. What was his average rate in laps per hour?</p>	<p>6: A baker used 4 cups of flour to make 5 batches of brownies. How many cups of flour does the baker need to make 1 batch of brownies?</p>
<p>7: A grocery store sign indicates that plums are 6 for \$1.50, and a sign by the apples indicates that they are 5 for \$3.00. Find the total cost of buying 2 plums and 2 apples.</p>	<p>8: In Ms. Morant's class, 75% of the students are girls. There are 18 girls in the class. What is the total number of students in Ms. Morant's class?</p>	<p>9: Samantha drove 168 miles in $3\frac{1}{2}$ hours. She then drove the next $2\frac{1}{4}$ hours at a rate of 5 miles an hour faster than the first rate. How many miles did Samantha drive during the $5\frac{3}{4}$ hours?</p>
<p>10: Rodney has two 7-foot-long steel pipes. He needs to cut pieces that are 15 inches long from the pipes. What is the greatest number of 15-inch pieces he can cut from the two steel pipes?</p>	<p>11: A sandbox has an area of 32 square feet, and the length is $4\frac{1}{2}$ feet. What is the width of the sand box?</p>	<p>12: One serving of Chad's favorite cereal contains $1\frac{1}{4}$ ounces. How many servings are in a $15\frac{1}{3}$-ounce box?</p>
<p>13: Sandrena and her friends bought frozen yogurt for 55 cents per ounce. Their total was \$10.45. How many ounces did they buy?</p>	<p>14: A local museum had a total of 38,627 visitors last year. The museum was open every day except for four holidays. On average, how many visitors did the museum have each day?</p>	<p>15: Nigel has 2,835 comic books. He must pack them into boxes to ship to a comic book store. Each box holds 45 comic books. How many boxes will he need to pack all of the books?</p>

<p>16: During a promotional weekend, a clothing store gives a \$50 gift card to every 75th person who enters the store. On Saturday, there were 1,032 people who visited the store. On Sunday, there were 1,562 people who visited the store. How many people received a \$50 gift card over the two days?</p>	<p>17: Sandy connects a black garden hose and a green garden hose to make one long hose. The black hose is 18.5 feet. The green hose is 12.65 feet. How long is the combined hose?</p>	<p>18: Judy earns \$11.80 per hour working at a fast food restaurant. How much money will she earn for 12.5 hours of work?</p>
<p>19: Nina has \$20.14 in her purse. She buys lunch for \$9.67. How much does she have left?</p>	<p>20: Mr. Williams has a piece of rope that is 22.5 meters long. He wants to cut it into pieces that are 1.25 meter long. How many pieces of rope will he have?</p>	<p>21: Find the LCM and GCF of 12 and 15.</p>
<p>22: Room A and B were both cleaned today.</p> <ul style="list-style-type: none">• Room A is cleaned every 9 days.• Room B is cleaned every 6 days. <p>What is the fewest number of days that will pass before both rooms are cleaned again on the same day?</p>	<p>23: There are 27 girls and 36 boys who want to participate in a math competition. If each team must have the same ratio of girls and boys, what is the greatest number of teams that can enter?</p>	<p>24: Both coordinates of a point in the coordinate plane are negative. In which quadrant is this point located?</p>
<p>25: What is the opposite of the opposite of -5?</p>	<p>26: Write the numbers in order from least to greatest. -2, -5, -9, 2.2, 2.7, -20, 2.5</p>	<p>27: What is the absolute value of 34?</p>
<p>28: At a golf tournament, Tyrese scored +6, Whitney scored -16, and Maxwell scored -4. One of these three players was the winner of the tournament. Who won the tournament? The winner will be the player with the lowest score.</p>	<p>29: On January 25th, the high temperature in Portland, Oregon, was 48 °F. On February 2nd, the high temperature was 24 °F. Which day was warmer?</p>	<p>30: Amber sends a text message to 4 people and those 4 people send the text message to 4 more people, and so on. Write an expression to show the number of people who will receive the text message after the fifth round.</p>

<p>31: Simplify (no calculator)</p> <p style="text-align: center;">$(35+20) \div 5 + 32$</p>	<p>32: Write the expression $7 \times 7 \times 7 \times 7 \times 7 \times 7$ in exponential form.</p>	<p>33: Write an expression that represents the phrase below: 7 less than the product of 4 and a number, x</p>
<p>34: The distance from Hailey's house to the shopping center is 2.5 miles more than the distance from Hailey's house to the movie theater. Let m equal the distance from Hailey's house to the movie theater. Write an expression to represent the distance from Hailey's house to the shopping center.</p>	<p>35: The rent for an apartment is \$900 per month. The landlord charges one month's rent as a deposit plus a non-refundable damage cost of \$450. The expression $900(n + 1) + 450$ represents the cost of the renting the apartment for n months. Simplify the expression.</p>	<p>36: A square has a perimeter given by the expression $16x + 32y$. Write an expression for the length of one side of the square.</p>
<p>37: Nicole reads 25 minutes before school. She reads x more minutes after school. Write an equation to represent the total number of minutes y Nicole reads.</p>	<p>38: Milly's Magnificent Muffins tracked the number of muffins they sold and the total amount of money they earned. They charged the same price for each muffin they sold. They earned \$50 for 20 muffins, \$55 for 22 muffins, and \$70 for 28 muffins. Write an equation to represent the relationship between m muffins sold, and e the total money earned.</p>	<p>39: Ms. DeCherico has two rectangular structures in her backyard; a pool and a fire pit. The dimensions of the pool are 5 feet by 6 feet. The dimensions of the fire pit are 7 feet by 8 feet. The length of the square backyard is 15 feet. What area of the yard is not covered by the pool and the fire pit?</p>
<p>40: A flower box is 3 ft. long $2 \frac{3}{4}$ ft. wide and $\frac{1}{2}$ ft. deep. How many cubic feet of dirt can it hold?</p>	<p>41: A bakery ships products in a 20-inch by 10-inch by 10-inch rectangular carton. Boxes of cupcakes are packaged in a 6-inch by 2-inch by 5-inch box. The company places 20 boxes of cupcakes in a carton and fills the rest of the space with packing material. What volume of space was filled with packing material?</p>	<p>42: Lorna uses a sheet of paper to make a model of a pyramid. The model has a square base with side lengths of 6 inches. The slant height of the model is 7 inches. How much paper was used to make the model, including the base?</p>
<p>43: The list shows Ryan's science quiz scores: 5, 10, 6, 10, 8, 7, 6, 9 Find the median quiz score.</p>	<p>44: Phillip earned \$12, \$25, \$15, \$18, and \$20 for each of five dogs he walked. Phillip wants to earn a mean of \$20 per dog. How much must he charge the next time he walks a dog?</p>	<p>45: The list shows the number of math homework problems out of ten that Elsa answered correctly for eight assignments: 10, 4, 10, 6, 10, 8, 7, 9 Find the mode of the data set.</p>

Student Name: _____

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Due 9/13/19

16	17	18
19	20	21
22	23	24
25	26	27
28	29	30

Student Name: _____

Incoming 7th Grade Summer Math Assignment

Due 9/13/19

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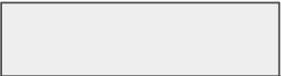
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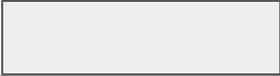
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