

# 7<sup>th</sup> Grade Math Summer Packet



**Pick 25 out of the 30 problems to complete. Make sure that you show your work for all of the problems that you pick! You will only get credit if you show your work!**

**Show all your work in the boxes  
Each question is 2 pts each.**

**Name** \_\_\_\_\_

**Phone** \_\_\_\_\_

**Parent's Signature**

\_\_\_\_\_

**Parent's Email**

\_\_\_\_\_

# Summer Packet Rubric

Each question is based on this rubric. There are a 25 questions.

They are 2 points each for a total of 50 points.

This will be the first test grade as a 7<sup>th</sup> grader.

<b>2 points</b>	<p>A two-point response includes the correct solution to the question and demonstrates a thorough understanding of the mathematical concepts and/or procedures in the task.</p> <p>This response—</p> <ul style="list-style-type: none"><li>• indicates that the student has completed the task correctly, using mathematically sound procedures</li><li>• contains sufficient work to demonstrate a thorough understanding of the mathematical concepts and/or procedures</li><li>• may contain inconsequential errors that do not detract from the correct solution</li></ul>
<b>1 point</b>	<p>A one-point response demonstrates only a partial understanding of the mathematical concepts and/or procedures in the task.</p> <p>This response—</p> <ul style="list-style-type: none"><li>• correctly addresses only some elements of the task</li><li>• may contain an incorrect solution but applies a mathematically appropriate process</li><li>• may contain the correct solution but required work is incomplete</li></ul>
<b>0 points</b>	<p>A zero-point response is incorrect, irrelevant, incoherent, or contains a correct solution obtained using an obviously incorrect procedure. Although some elements may contain correct mathematical procedures, holistically they are not sufficient to demonstrate even a limited understanding of the mathematical concepts embodied in the task.</p>

You must show **ALL WORK** for each problem! You may use separate sheets if you run out of room, but you must attach them to this paper. **Answers must be written in the answer box to receive credit.**

1. Mr. Kadlec blew up 11 balloons and Mr. Inzeo blew up 14 balloons. What is the ratio of Mr. Inzeo's balloons to total balloons? Write it in two different ways.		Answer:
2. Ms. Grant buys 8 apples for \$3.50 and 5 bananas for \$1.50. What is the ratio of number of pieces of fruit she buys to the total dollars she spends? Write the answer in at least two different ways.		Answer:
3. Mr. Shanz travels 25 blocks on his skateboard in 5 minutes. At this speed, how many blocks can he travel in 10 minutes?		Answer:
4. A book is $\frac{1}{2}$ of an inch thick. How many of these books will fit into a shelf that is $10\frac{3}{4}$ inches wide?		Answer:
5. Ms. Eisenberg wants to buy a jacket that is normally \$70. She has a 25% off coupon. How much will she end up paying for the jacket if she uses the coupon?		Answer:
6. Jada answered 60% of the 30 questions on a test correctly. How many correct answers did she have?		Answer:

<p>7. Multiply:</p> <p><math>23.4 \times 6.71 =</math></p> <p>NO CREDIT WILL BE GIVEN IF YOU DON'T SHOW YOUR WORK.</p>		Answer:
<p>8. Define the following:</p> <ul style="list-style-type: none"> <li>a. The range of data is...</li> <li>b. The mean of the data is...</li> <li>c. What is the difference between these two statistics? Explain.</li> </ul>		Answer:
<p>9. Write the expression:</p> <ul style="list-style-type: none"> <li>a. Olamatu had \$54 in her wallet. She spent some money.</li> <li>b. Destiny has 19 DVDs. She bought some DVDs.</li> </ul>		Answer:
<p>10. At the end of the softball season, Mr. Inzeo's batting average was 0.292, Mr. Kadlec's was 0.253, and Mr. Shelley's was 0.272. Order from the <b>greatest to least</b>.</p>		Answer:
<p>11. What is the difference between factors and multiples?</p>		Answer:
<p>12. On a field trip, a 7th grade class traveled 19.995km by train, 7.15km by bus, and 2.3km by car. How far did they travel all together?</p>		Answer:

<p>13. Identify the coefficient in each expression:</p> <p>a. <math>(3 \times 5) + 9x</math></p> <p>b. <math>27h - 3 + 8</math></p>		Answer:
<p>14: Evaluate:</p> $\frac{3}{8} \div 1\frac{1}{2}$ <p>ALL WORK MUST BE SHOWN FOR CREDIT.</p>		Answer:
<p>15. Solve:</p> <p>a. <math>-(-23) =</math></p> <p>b. <math> -33  =</math></p>		Answer:
<p>16. At an amusement park, only 20 people were allowed on a ride at the same time. There are 147 people waiting in line. How many groups will there be?</p>		Answer:
<p>17. The expression <math>10a + 7c</math> can be used to find the cost of an all-you-can-eat-buffet for <math>a</math>, adults, and <math>c</math>, <i>children</i>. What is the cost of the lunch for 3 adults and 4 children?</p>		Answer:
<p>18. Angeles practiced violin for <math>2\frac{1}{2}</math> hours on Monday, <math>2\frac{3}{10}</math> hours on Tuesday, and <math>1\frac{4}{9}</math> hours on Wednesday. How much did she practice in all?</p>		Answer:

<p>19. Which is greater? EXPLAIN YOUR REASONING.</p> <p><math>2\frac{7}{8}</math> or <math>2\frac{3}{4}</math></p>		Answer:
<p>20. Find the sum, difference, product, and quotient of the following numbers: <b>73.5 and 9</b></p> <p><b>NO CREDIT WILL BE GIVEN IF YOU DON'T SHOW YOUR WORK!</b></p>		Answer:
<p>21. What is the LCM of 8 and 12?</p>		Answer:
<p>22. Write the matching integer:</p> <p>a. A gain of 40 pounds b. Stocks fell 65% points</p>		Answer:
<p>23. Which is the warmer temperature? Explain how you know.</p> <p>-93 degrees F or -73 degrees F</p>		Answer:
<p>24. My daughter has \$285 in the bank. She spent \$121.00. Will she have enough money to buy a \$130 bike? Explain.</p>		Answer:

<p>25. Order these numbers from least to greatest:</p> <p>-7.2, 5, -2.5, 7.2, 4</p>		Answer:
<p>26. Describe how you would graph <math>(-4, 12)</math>.</p>		Answer:
<p>27. Jayleen reflects the point <math>(-7, 10)</math> across the y-axis. What are the coordinates of the new reflected point?</p>		Answer:
<p>28. Mr. Kadlec wants to promote his new business. He gave out a free pen to every 4th customer and a free pad of paper to every 7th customer. Which customer will be the first to get both a pen and a pad of paper?</p>		Answer:
<p>29. Below were the high temperatures in The Bronx last week: 80, 70, 69, 63, and 61.</p> <p>a. Identify the mean b. Identify the median c. Identify the mode</p>		Answer:
<p>30. The cost of the movie tickets prices in the area are \$9.50, \$11.75, \$8.75, \$10.99, \$9.50.</p> <p>a. Identify the mode b. Identify the range c. Identify the mean</p>		Answer: