

Dear Parents,

Summer is a time for fun and relaxation. However, many parents express the need to keep skills sharp over the summer months. We have a summer mathpacket for your child to work on that will review various concepts covered during the previous school year. As you and your child work through the packet, please accept reasonable answers. Also note that some questions may have more than one answer. For example, half of something is the same as dividing it by 2. If your student does not remember how to do a particular concept, please have them research how to do it. Some useful websites are: [MathAntics](#) and [MathisFun](#). These sites have tips and videos on how to do many topics in math.

It is our hope that students can take a little time each day to work through the packet in order to decrease the "summer slide" and maintain skills moving into the next school year.

**DIRECTIONS:** Please complete the packet with work to be turned in on the first week of school. You will earn full credit if you include your work; it shows us your thinking. It should be organized and easy to follow.

If you have any questions about the packet, please feel free to reach out to your teacher, either Mr. Clark ([cclark@sttimothyparish.org](mailto:cclark@sttimothyparish.org)) or Mrs. Nash ([knash@sttimothyparish.org](mailto:knash@sttimothyparish.org)).

Thank you all for your support and we hope you all have a restful summer.

Many Blessings,

Mr. Clark and Mrs. Nash

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Rising 7<sup>th</sup> Grade Summer Math Recording Sheet

Please record your answers below. Use A, B, C, or D

1.	15.	29.	43.
2.	16.	30.	44.
3.	17.	31.	45.
4.	18.	32.	46.
5.	19.	33.	47.
6.	20.	34.	48.
7.	21.	35.	49.
8.	22.	36.	50.
9.	23.	37.	51.
10.	24.	38.	52.
11.	25.	39.	53.
12.	26.	40.	54.
13.	27.	41.	55.
14.	28.	42.	56.

# Summer Math - Rising 7th Grade

<p>1. <math>\frac{3}{5} \div 6 =</math></p> <p>A. <math>3\frac{3}{5}</math></p> <p>B. <math>\frac{1}{7}</math></p> <p>C. <math>\frac{3}{10}</math></p> <p>D. <math>\frac{1}{10}</math></p> <p style="text-align: right;"><b>6.NS.1</b></p>	<p>4. The classroom is 7 yards long. What is the length in inches?</p> <p>A. 14 inches</p> <p>B. 84 inches</p> <p>C. 252 inches</p> <p>D. 21 inches</p> <p style="text-align: right;"><b>6.RP.3d</b></p>
<p>2. Matt paid \$6.65 to download 7 songs. What is the unit rate?</p> <p>A. \$0.95 / song</p> <p>B. \$0.90 / song</p> <p>C. \$46.55/ song</p> <p>D. \$0.85 / song</p> <p style="text-align: right;"><b>6.RP.2</b></p>	<p>5. <math>527.3 + 6.98 =</math></p> <p>A. 533.28</p> <p>B. 534.28</p> <p>C. 597.10</p> <p>D. 535.28</p> <p style="text-align: right;"><b>6.NS.3</b></p>
<p>3. Which event could be represented by the integer -5?</p> <p>A. Depositing \$5 into your bank account.</p> <p>B. Adding 5 songs to your playlist.</p> <p>C. Losing 5 yards on the play.</p> <p>D. Jumping up 5 feet on a trampoline.</p> <p style="text-align: right;"><b>6.NS.5</b></p>	<p>6. What is the ratio of circles to squares?</p> <p style="text-align: center;">□ □ ○ □</p> <p>A. 1:3</p> <p>B. 3:1</p> <p>C. 4:3</p> <p>D. 4:1</p> <p style="text-align: right;"><b>6.RP.1</b></p>

# Summer Math - Rising 7th Grade

7.  $20.35 \div 5.5 =$

- A. 0.37
- B. 370
- C. 37
- D. 3.7

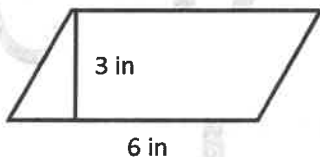
6.NS.3

10. The city's elevation is 23.5 feet below sea level. Between which 2 integers is this elevation?

- A. 23 and 24
- B. -23 and -24
- C. 0 and -23
- D. -24 and -25

6.NS.6a

8. What is the area of this parallelogram?



- A.  $9 \text{ in}^2$
- B.  $18 \text{ in}^2$
- C.  $36 \text{ in}^2$
- D.  $12 \text{ in}^2$

6.G.1

11. What is 15% of 70?

- A. 1050
- B. 10.50
- C. 101.5
- D. 1.05

6.RP.3c

9. Write an algebraic expression for 5 times the sum of  $y$  and 1.

- A.  $5 \times (y + 1)$
- B.  $5 \times y + 1$
- C.  $5 \times (y - 1)$
- D.  $5 \times (5y)$

6.EE.2a

12.  $7x = 21$ . Solve for  $x$ .

- A.  $x = \frac{1}{3}$
- B.  $x = 3$
- C.  $x = 147$
- D.  $x = \frac{1}{147}$

6.EE.7

# Summer Math - Rising 7th Grade

13. What is the prime factorization of 140?

- A.  $2 \times 2 \times 5 \times 7$
- B.  $4 \times 5 \times 7$
- C.  $2 \times 3 \times 5 \times 7$
- D.  $5 \times 5 \times 7$

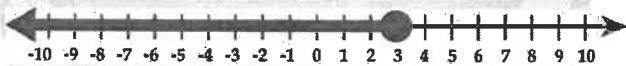
6.NS.4

16. If  $x = 3$ , evaluate the expression  $x^2 - 1$ .

- A. -5
- B. 5
- C. -8
- D. 8

6.EE.2c

14. Which inequality is shown below?



- A.  $x > 3$
- B.  $x \geq 3$
- C.  $x \leq 3$
- D.  $x < 3$

6.EE.8

17. Order from least to greatest

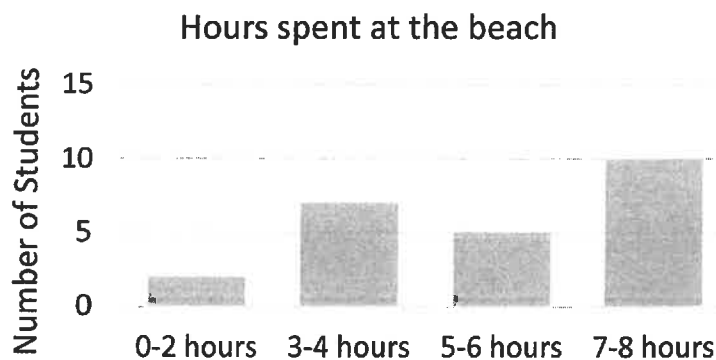
$$\frac{1}{5}, 0.3, \frac{1}{2}$$

- A.  $\frac{1}{5}, \frac{1}{2}, 0.3,$
- B.  $\frac{1}{2}, \frac{1}{5}, 0.3$
- C.  $\frac{1}{5}, 0.3, \frac{1}{2}$
- D.  $0.3, \frac{1}{2}, \frac{1}{5}$

6.NS.6c

15. The reporter asked students how much time they spent at the beach each week and displayed the information below. Which interval represents a peak?

- A. 0-2 hours
- B. 3-4 hours
- C. 5-6 hours
- D. 7-8 hours



6.SP.2

## Summer Math - Rising 7th Grade

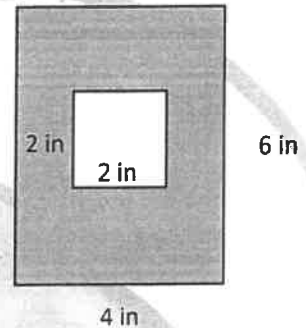
18. Write an equation for this word sentence: one fourth of a number equals 5.

- A.  $\frac{1}{4} = 5$
- B.  $\frac{1}{4}n = 5$
- C.  $4n = 5$
- D.  $\frac{1}{4} + n = 5$

6.EE.7

21. Find the area of the shaded region.

- A.  $10 \text{ in}^2$
- B.  $28 \text{ in}^2$
- C.  $20 \text{ in}^2$
- D.  $24 \text{ in}^2$



6.G.1

19. Katie divided a drink with a volume of  $3\frac{1}{2}$  cups into  $\frac{1}{2}$  cup servings. How many servings did she have?

- A. 10
- B. 7
- C. 6
- D. 3

6.NS.2

22.  $4\frac{1}{2} \div 2\frac{1}{2} =$

- A. 2
- B.  $11\frac{1}{4}$
- C.  $2\frac{1}{2}$
- D.  $1\frac{4}{5}$

6.NS.1

20. The ratio of girls to boys is 2:3. If there are 14 girls, how many boys are there?

- A. 2
- B. 3
- C. 14
- D. 21

6.RP.1

23. The football team either gained or lost yards on 5 different plays: -5, 3, -3, 0, 5. Order these 5 numbers from greatest to least.

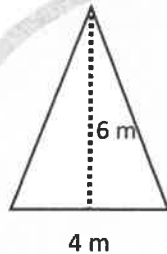
- A. 5, 3, 0, -3, -5
- B. 5, 3, 0, -5, -3
- C. -5, -3, 0, 3, 5
- D. -3, -5, 0, 3, 5

6.NS.7a

# Summer Math - Rising 7th Grade

24. What is the area of this triangle?

- A.  $36 \text{ m}^2$
- B.  $24 \text{ m}^2$
- C.  $12 \text{ m}^2$
- D.  $48 \text{ m}^2$



6.G.1

27. The table shows home runs for 2 baseball players over 5 games. Which statement is true?

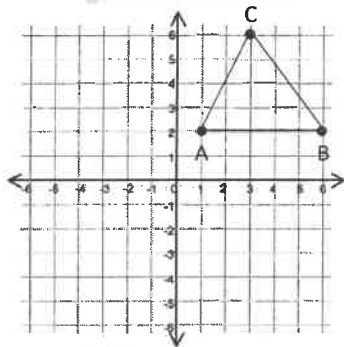
Home runs in baseball	
Steve	2, 1, 2, 0, 1
Henry	0, 0, 2, 1, 1

- A. The mean for Steve and Henry is the same.
- B. The mean for Steve is greater than the mean for Henry.
- C. The mean for Henry is greater than the mean for Steve.
- D. The range is NOT the same.

6.SP.3

25. For  $\triangle ABC$ , what is the length of  $\overline{AB}$ ?

- A. 3
- B. 4
- C. 5
- D. 6



6.G.3

26. Jose reads 45 pages of his novel in 3 hours. At that rate, how many pages would he read in 5 hours?

- A. 60
- B. 75
- C. 90
- D. 105

6.RP.3a

28.  $37.4 \times 1.9 =$

- A. 71.06
- B. 710.6
- C. 70.06
- D. 700.6

6.NS.3

## Summer Math - Rising 7th Grade

<p>29. Evaluate the following expression</p> $2(3 - 2x)$ <p>A. <math>23 - 22x</math>            B. <math>6 - 6x</math>            C. <math>6 - 4x</math>            D. <math>4 - 4x</math></p> <p style="text-align: right;"><b>6.EE.3</b></p>	<p>32. The location of the pool is represented by the point <math>(-24,10)</math>. In which quadrant is this point?</p> <p>A. Quadrant I            B. Quadrant II            C. Quadrant III            D. Quadrant IV</p> <p style="text-align: right;"><b>6.NS.6b</b></p>												
<p>30. Which of the following has a value less than 0?</p> <p>A. 7            B. <math> 7 </math>            C. <math> -7 </math>            D. -7</p> <p style="text-align: right;"><b>6.NS.7c</b></p>	<p>33. The dot plot shows the number of hours students rode their bikes last week. What is the most common number of hours?</p> <div style="text-align: center;"> <p><b>Hours riding bikes</b></p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Data from Dot Plot</caption> <thead> <tr> <th>Hours</th> <th>Number of Students</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> </tr> <tr> <td>2</td> <td>3</td> </tr> <tr> <td>3</td> <td>3</td> </tr> <tr> <td>4</td> <td>7</td> </tr> <tr> <td>5</td> <td>3</td> </tr> </tbody> </table> </div> <p>A. 2            B. 3            C. 4            D. 5</p> <p style="text-align: right;"><b>6.SP.4</b></p>	Hours	Number of Students	1	2	2	3	3	3	4	7	5	3
Hours	Number of Students												
1	2												
2	3												
3	3												
4	7												
5	3												
<p>31. What is 130% as a decimal and a fraction in simplest form?</p> <p>A. 1.3 and <math>1\frac{3}{100}</math>            B. 1.3 and <math>1\frac{3}{10}</math>            C. 130 and <math>1\frac{3}{100}</math>            D. 130 and <math>1\frac{3}{10}</math></p> <p style="text-align: right;"><b>6.RP.3c</b></p>													

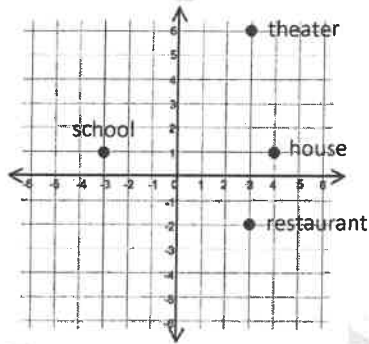


# Summer Math - Rising 7th Grade

<p>34. The expression <math>3(a + 5)</math> is equivalent to which expression?</p> <p>A. <math>3 + a + 5</math>            B. <math>3a + 8</math>            C. <math>3a + 5</math>            D. <math>3a + 15</math></p> <p style="text-align: right;"><b>6.EE.4</b></p>	<p>37. <math>\frac{5}{8} \times \frac{2}{3} =</math></p> <p>A. <math>\frac{7}{12}</math>            B. <math>\frac{10}{25}</math>            C. <math>\frac{5}{12}</math>            D. <math>\frac{5}{24}</math></p> <p style="text-align: right;"><b>6.NS.4</b></p>
<p>35. The camp is divided into 2 groups. There are 14 kids in Camp A and 21 kids in Camp B. If you divided both camps into groups of equal size, how many students are in a group?</p> <p>A. 7            B. 6            C. 5            D. 4</p> <p style="text-align: right;"><b>6.NS.4</b></p>	<p>38. Evaluate the expression</p> <p style="text-align: center;"><math>6^2 - (3^2 + 1)</math></p> <p>A. 29            B. 2            C. 5            D. 26</p> <p style="text-align: right;"><b>6.EE.1</b></p>
<p>36. Which of the following is a box &amp; whisker plot for 12, 14, 15, 16, 17?</p> <div style="text-align: center;"> </div> <p style="text-align: right;"><b>6.SP.4</b></p>	<p>39. The linear equation <math>y = 3x</math> represents the cost <math>y</math> of <math>x</math> pounds of strawberries. Which ordered pair lies on the graph of the equation?</p> <p>A. (2, 6)            B. (1, 0)            C. (6, 2)            D. (0, 1)</p> <p style="text-align: right;"><b>6.EE.9</b></p>

## Summer Math - Rising 7th Grade

40. Each unit is 1 mile. What is the distance from the school to the house?



- A. 8 miles
- B. 7 miles
- C. 6 miles
- D. 5 miles

**6.NS.8**

43. What is the mean, median, and mode for this set of data: 14, 10, 16, 14, 11?

- A. 14, 11, 14
- B. 12, 13, 14
- C. 13, 14, 13
- D. 13, 14, 14

**6.SP.5c**

41. The cat's weight changed -8 oz. while she was sick. Which of the following shows a greater change in weight?

- A. Loss of 9 oz.
- B. Loss of 6 oz.
- C. Gain of 5 oz.
- D. Gain of 3 oz.

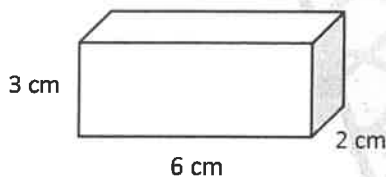
**6.NS.7d**

44. Order these integers from least to greatest: -9, 9, 0, 6, -6

- A. -6, -9, 0, 6, 9
- B. -9, -6, 0, 6, 9
- C. 9, 6, 0, -6, -9
- D. 9, 6, 0, -9, -6

**6.NS.7a**

42. What is the volume?



- A.  $11 \text{ cm}^3$
- B.  $18 \text{ cm}^3$
- C.  $36 \text{ cm}^3$
- D.  $72 \text{ cm}^3$

**6.G.2**

45. If 2 bags of grapes weigh 6 pounds, how many pounds do 5 bags weigh?

- A. 15 pounds
- B. 20 pounds
- C. 25 pounds
- D. 9 pounds

**6.RP.3b**

## Summer Math - Rising 7th Grade

<p>46. The high temperatures for the week were 87, 82, 100, 83, and 88. What is the mean of the temperatures without the outlier?</p> <p>A. 85 B. 84 C. 88 D. 87</p> <p style="text-align: right;"><b>6.SP.5d</b></p>	<p>49. A swim team coach recorded the number of laps that kids swam during practices. In how many practices did they swim 15-19 laps?</p> <div style="text-align: center;"> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Data from Bar Graph</caption> <thead> <tr> <th>Laps during practice</th> <th>Number of practices</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>2</td> </tr> <tr> <td>5-9</td> <td>4</td> </tr> <tr> <td>10-14</td> <td>5</td> </tr> <tr> <td>15-19</td> <td>4</td> </tr> <tr> <td>20-24</td> <td>1</td> </tr> </tbody> </table> </div> <p>A. 2 B. 3 C. 4 D. 5</p> <p style="text-align: right;"><b>6.SP.5a</b></p>	Laps during practice	Number of practices	0-4	2	5-9	4	10-14	5	15-19	4	20-24	1
Laps during practice	Number of practices												
0-4	2												
5-9	4												
10-14	5												
15-19	4												
20-24	1												
<p>47. Jamal records how much time he spends playing video games every day for 5 days. Which is <u>not</u> a statistical question for this situation?</p> <p>A. What is the average amount of time each day? B. What is the total amount of time? C. Which game is his favorite? D. On which day did he spend the most time playing video games?</p> <p style="text-align: right;"><b>6.SP.1</b></p>	<p>48. Helen wants to have cake for her party. She needs 1 cake for every 8 people. Which expression helps her decide how many cakes to buy if <math>p</math> represents the number of people?</p> <p>A. <math>8p</math> B. <math>\frac{1}{8}p</math> C. <math>8 + p</math> D. <math>p - 8</math></p> <p style="text-align: right;"><b>6.EE.6</b></p>												
<p>48. Helen wants to have cake for her party. She needs 1 cake for every 8 people. Which expression helps her decide how many cakes to buy if <math>p</math> represents the number of people?</p> <p>A. <math>8p</math> B. <math>\frac{1}{8}p</math> C. <math>8 + p</math> D. <math>p - 8</math></p> <p style="text-align: right;"><b>6.EE.6</b></p>	<p>50. A rectangular prism measures 6 inches by 4 inches by 2 inches. What is the surface area?</p> <p>A. <math>22 \text{ in}^2</math> B. <math>44 \text{ in}^2</math> C. <math>88 \text{ in}^2</math> D. <math>100 \text{ in}^2</math></p> <p style="text-align: right;"><b>6.G.4</b></p>												

## Summer Math - Rising 7th Grade

<p>51. Is <math>k = 6</math> a solution to the equation <math>\frac{1}{3}k = 3</math>?</p> <p>A. Yes            B. No, <math>k = 9</math>            C. No, <math>k = 3</math>            D. No, <math>k = 18</math></p> <p style="text-align: right;"><b>6.EE.5</b></p>	<p>54. Order these numbers from <u>greatest</u> to <u>least</u>.</p> <p style="text-align: center;"><math>-\frac{1}{2}, -\frac{1}{4}, 0, 0.3, 0.2</math></p> <p>A. <math>0.3, 0.2, 0, -\frac{1}{4}, -\frac{1}{2}</math>            B. <math>-\frac{1}{2}, -\frac{1}{4}, 0, 0.2, 0.3</math>            C. <math>0.2, 0.3, 0, -\frac{1}{2}, -\frac{1}{4}</math>            D. <math>0.3, 0.2, 0, -\frac{1}{2}, -\frac{1}{4}</math></p> <p style="text-align: right;"><b>6.NS.7b</b></p>
<p>52. How many terms are in the following expression?</p> <p style="text-align: center;"><math>6x + 1</math></p> <p>A. 1            B. 2            C. 3            D. 0</p> <p style="text-align: right;"><b>6.EE.2b</b></p>	<p>55. <math>x + 8 = 12</math></p> <p>A. <math>x = 4</math>            B. <math>x = 20</math>            C. <math>x = 8</math>            D. <math>x = 5</math></p> <p style="text-align: right;"><b>6.EE.7</b></p>
<p>53. The reporter interviewed 10 tourists from Ohio about the schools in Florida. Which of the following is true?</p> <p>A. This is a sample of all tourists.            B. These tourists are biased.            C. These tourists are not biased.            D. This is a random sample.</p> <p style="text-align: right;"><b>6.SP.5b</b></p>	<p>56. <math>218.01 \div 4.3 =</math></p> <p>A. 0.507            B. 5.07            C. 50.7            D. 507</p> <p style="text-align: right;"><b>6.NS.3</b></p>