

# 7th Grade

## **Summer Math Packet**

Dear Students,

The math skills you have learned in sixth grade must be reviewed over the summer so that you will be ready for seventh grade pre-algebra. This packet is a review of concepts that we covered this year. Show your work in the spaces provided. If you need to use extra paper please do so. Complete a couple of pages each week. Space it out over the summer. Use the following website if you need help reviewing a topic: [www.classzone.com](http://www.classzone.com). Choose either the Course 1 (red) or Course 2 (blue) book. The answer key is the last page of the packet.

Have a great summer!

Mrs. Sevin

Mrs. Fernandez

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

1. Write 7,000,000 in words.	2. Round 48,377 to the nearest thousand.	3. Add $632 + 577 + 298$
4. Subtract $6000 - 3956$	5. Multiply $37 \times 26$ .	6. Multiply $372 \times 305$ .
7. Divide $4036 \div 25$ . Write your remainder as a fraction.	8. 12 CD's cost \$30. How much will 18 CD's cost?	9. Paul ran 400 yards. How many feet did he run?
10. Subtract $6025 - 1773$ .	11. Multiply $248 \times 72$ .	12. Solve $\frac{n}{25} = 42$

<p>1. Give the quotient. Round to the nearest hundredth. <math>41.53 \div 2.7</math></p>	<p>2. Solve.</p> $\frac{n}{6} = 12$	<p>3. What is the least common multiple of 9 and 12?</p>
<p>4. <math>7\frac{3}{4} - 5\frac{1}{6}</math></p>	<p>5. <math>\frac{7}{8} \div \frac{1}{4}</math></p>	<p>6. <math>3\frac{5}{12} + 2\frac{1}{3}</math></p>
<p>7. <math>6 - 2\frac{3}{7}</math></p>	<p>8. <math>0.23 \times 10 = \underline{\hspace{2cm}}</math> <math>0.23 \times 100 = \underline{\hspace{2cm}}</math> <math>0.23 \times 1000 = \underline{\hspace{2cm}}</math></p>	<p>9. <math>5^2 = \underline{\hspace{2cm}}</math> <math>12^2 = \underline{\hspace{2cm}}</math> <math>4^3 = \underline{\hspace{2cm}}</math> <math>(\frac{1}{3})^3 = \underline{\hspace{2cm}}</math></p>
<p>1. <math>8003 - 4297</math></p>	<p>11. <math>47 \times 28</math></p>	<p>12. Divide <math>3714 \div 6</math></p>

<p>1. Simplify <math>(20 + 4) \div 2 \times 2</math></p>	<p>2. Round 67.751 to the nearest one.</p>	<p>3. Add. <math>3.98 + 42.7</math></p>
<p>4. Subtract <math>5.007 - 0.389</math></p>	<p>5. Alan bought five 12 cent stamps and twenty 18 cent stamps. What was the total cost of the stamps?</p>	<p>6. Round 5.3692 to the nearest thousandth.</p>
<p>7. Find the sum. <math>82.5 + 6.98</math></p>	<p>8. Find the difference. <math>38.2 - 3.45</math></p>	<p>9. Multiply <math>5.42 \times 31.4</math></p>
<p>10. Solve <math>X + 33 = 70</math></p>	<p>11. <math>5\frac{3}{4} + 2\frac{1}{3}</math></p>	<p>12. <math>8\frac{1}{4} - 2\frac{5}{8}</math></p>

1. $\frac{2}{3} \times 6$	2. $2\frac{3}{8} \div 1\frac{1}{3}$	3. Divide $14,280 \div 136$
4. $37.6 - 2.54$	5. $5.84 \times 6.5$	6. $7.93 \div 2.6$
7. What is the greatest common factor of 9 and 12?	8. $\frac{2}{5} - \frac{1}{3}$	9. $2\frac{3}{5} + 1\frac{2}{5}$
10. Adele had 18 books. This was 3 times as many as Vera had. How many books did Vera have?	11. Alan weighs 72.64 kg. How many pounds does Alan weigh?	12. $62.8 - 3.54$

1. $3.26 \times 1.5$	2. Find the mean of 6.8, 3.5, 9.2, 7.45, 6.05.	3. What is the prime factorization of 24?
4. $\frac{5}{9} + \frac{5}{6}$	5. $1\frac{4}{5} - \frac{2}{3}$	6. $2\frac{1}{2} \times 4\frac{1}{4}$
7. Write $\frac{4}{5}$ as a decimal.	8. Write 0.25 as a percent.	9. 75% of 48 = _____
10. What percent of 85 is 17?	11. $6.2 + 3.8 + 0.57$	12. $3.216 \div 0.08$

<p>1. What is the prime factorization of 56?</p>	<p>2. <math>\frac{5}{6} \times \frac{2}{3}</math></p>	<p>3. What is the reciprocal of <math>\frac{7}{10}</math>.</p>
<p>4. <math>\frac{4}{15} \div \frac{1}{3}</math></p>	<p>5. Solve. <math>n - 6 = 15</math></p>	<p>6. Solve. <math>y + 27 = 36</math></p>
<p>7. Solve. <math>12n = 108</math></p>	<p>8. Lee has some money in his wallet. He buys a book for \$13. Then he has \$28 left in his wallet. How much money did he have before he bought the book?</p>	<p>9. Find each product.</p> <p><math>\frac{2}{5}</math> of 40 = _____</p> <p><math>\frac{7}{8}</math> of 48 = _____</p> <p><math>\frac{1}{4}</math> of 36 = _____</p>
<p>10. Name the % for each fraction.</p> <p><math>\frac{4}{5} =</math> _____</p> <p><math>\frac{1}{4} =</math> _____</p>	<p>11. Write each decimal as a percent.</p> <p>0.59 = _____</p> <p>0.7 = _____</p> <p>0.418 = _____</p> <p>7.3 = _____</p>	<p>12. <math>5\frac{1}{4} - 4\frac{2}{3}</math></p>

<p>1. <math>\frac{7}{10} \div \frac{3}{8}</math></p>	<p>2. Find the LCM of 12 and 20.</p>	<p>3. Solve the proportion.  <math>\frac{14}{n} = \frac{21}{54}</math></p>
<p>4. 12% of what number is 42?</p>	<p>5. Find the unit price if a store sells 8 bars of soap for \$2.96.</p>	<p>6. Compare using &lt; or &gt;.</p> <p>0.073 _____ 0.07</p> <p>0.9 _____ 0.09</p> <p>4.58 _____ 4.6</p>
<p>7. <math>(12 + 6) \div 2 \times 3 =</math>  _____</p>	<p>8. <math>12 + 6 \div 2 \times 3</math></p>	<p>9. Solve.  <math>8n = 72</math></p>
<p>10. Divide <math>0.8 \div 0.016</math></p>	<p>11. Write in order from least to greatest.  7.631; 7.64; 7.463</p>	<p>12. 45% of 20</p>

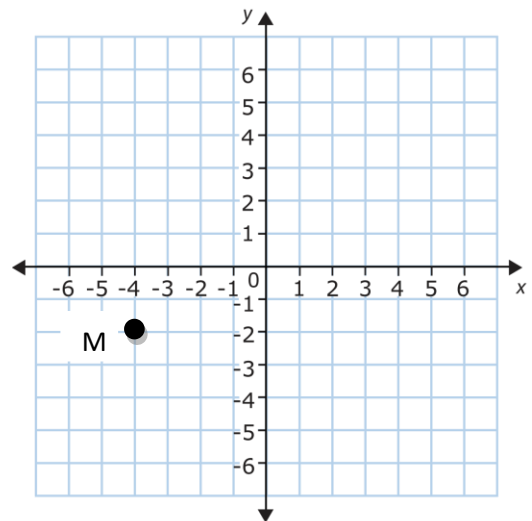


<p>1. Kate has <math>4\frac{1}{2}</math> pounds of sliced turkey. She is making huge poboys that have <math>\frac{3}{4}</math> pounds of meat on each sandwich. How many turkey poboys can be made?</p> <p>A. <math>5\frac{1}{4}</math>    B. 6    C. <math>3\frac{3}{4}</math></p>	<p>2. Larry works <math>5\frac{3}{4}</math> hours each day. How many hours does he work in 6 days?</p> <p>A. <math>11\frac{3}{4}</math>    B. <math>30\frac{3}{4}</math>    C. <math>34\frac{1}{2}</math></p>	<p>3. Mr. Clarke buys 6 English ivy plants for \$5.95 each and 4 flower pots for \$2.75 each. How much does Mr. Clarke spend in all?</p> <p>A. \$35.70 B. \$38.50 C. \$46.70</p>
<p>4. Write as an improper fraction.</p> <p><math>3\frac{5}{8}</math></p> <p><math>5\frac{9}{10}</math></p> <p><math>4\frac{2}{9}</math></p>	<p>5. Write as a mixed number.</p> <p><math>\frac{32}{3}</math></p> <p><math>\frac{25}{4}</math></p> <p><math>\frac{38}{9}</math></p>	<p>6. Compare using &lt; or &gt;.</p> <p><math>\frac{7}{15}</math> _____ <math>\frac{7}{10}</math></p> <p><math>\frac{7}{9}</math> _____ <math>\frac{2}{3}</math></p>
<p>7. Solve.</p> <p><math>\frac{3}{9} = \frac{n}{36}</math></p>	<p>8. Solve.</p> <p><math>\frac{2}{3} = \frac{12}{n}</math></p>	<p>9. Solve.</p> <p><math>\frac{n}{15} = \frac{2}{5}</math></p>
<p>10. Use an integer to describe the following situation.</p> <p>The altitude of Death Valley is 282 feet below sea level.</p>	<p>11. Use an integer to describe the following situation.</p> <p>Mount Hood is 11,239 feet above sea level.</p>	<p>12. Compare using &lt; or &gt;.</p> <p>-11 _____ 8</p> <p>-13 _____ -16</p>

<p>1. What is the absolute value of -14?</p>	<p>2. What is the absolute value of 38?</p>	<p>3. Change each percent to a decimal.</p> <p>5% = _____</p> <p>28% = _____</p> <p>4.5% = _____</p>
<p>4. Find 25% of 40.</p>	<p>5. Change to a percent.</p> <p>0.47 = _____</p> <p>0.003 = _____</p> <p>1.9 = _____</p>	<p>6. Write each percent as a fraction in lowest terms.</p> <p>35% = _____</p> <p>99% = _____</p> <p>540% = _____</p>

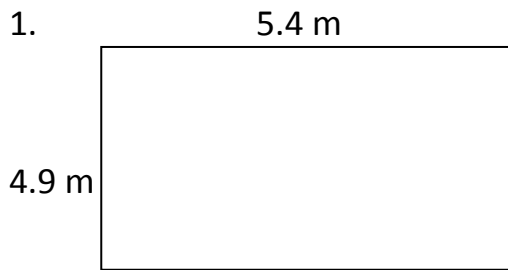
7. Graph and label the following points on the coordinate plane.

- A (3, 1)                      B (-2, -4)
- C (5, -2)                     D (-1, 6)

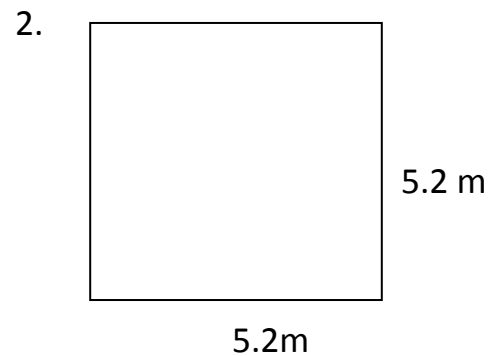


8. Write the ordered pair naming point M.

Using the given measurement, find the area and perimeter of each figure.



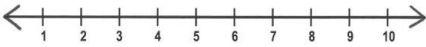

Area = \_\_\_\_\_ Perimeter = \_\_\_\_\_



Area = \_\_\_\_\_ Perimeter = \_\_\_\_\_

3. Greg wants to buy a kayak at Academy Sporting Goods. It is \$450. What will the total cost be if the tax rate is 9%?

4. 42 out of the 60 seventh graders went to the beach over the summer. What percent of the seventh graders went to the beach over the summer?

<p>1. Write an equation for the following word sentence.</p> <p>A number <math>y</math> decreased by 12 is 14.</p>	<p>2. Solve. <math>38 = n + 12 + 5</math></p>	<p>3. Solve. <math>a + 5.5 = 17.3</math></p>
<p>4. Write an equation and solve.</p> <p>15 subtracted from a number <math>w</math> is 24.</p>	<p>5. Solve. <math>\frac{m}{14} = 11</math></p>	<p>6. Solve. <math>136 = 17b</math></p>
<p>7. <math>\frac{2}{3} = \frac{1}{4}k</math></p>	<p>8. Is the ordered pair <math>(4, 22)</math> a solution for <math>y = 7x - 4</math>?</p>	<p>9. List three ordered pairs that would be a solution for the equation <math>y = 2x + 3</math></p>
<p>10. Each ticket to a school dance is \$4. The total amount collected in ticket sales is \$460. Write and solve an equation to find the number of tickets sold.</p>	<p>11. Graph <math>a &gt; 4</math> on the number line.</p> 	<p>12. Graph <math>m \leq 2</math> on the number line.</p> 

<p>1. There are 20 students in the photography club. 95% of the club showed up to help out at a car wash fundraiser. How many members showed up?</p>	<p>2. Merritt found a soccer ball that originally sold for \$25. It is reduced by 30%. What is the sale price of the soccer ball?</p>	<p>3. A board that is <math>12\frac{1}{2}</math> feet long is being cut into sections that are <math>\frac{1}{4}</math> foot long. How many sections can be cut from the whole board?</p>
<p>4. Sarah bought two adult movie tickets and three children's movie tickets for a total of \$34. If each adult ticket cost \$8, then what is the cost of one children's ticket?</p>	<p>5. Irene is designing a flower bed that will have a fence surrounding it. The length of the flower bed will be three times as long as the width.</p> <p>a) If the width of the flower bed is eight feet, what is the perimeter of the flower bed?</p> <p>b) What is the area of the flower bed?</p>	<p>6. Sherri ran a mile in 6.15 minutes. Previously, her time was 6.25 minutes. By how many <b>seconds</b> did she improve? (There are 60 seconds in a minute)</p>
<p>7. You set your watch to chime every 15 minutes and your friend sets her watch to chime every 20 minutes. Both watches chime at 1:22 p.m. When is the next time that the watches will chime at the same time?</p>	<p>8. Ralph makes <math>2\frac{1}{2}</math> batches of oatmeal cookies. Each batch makes 24 cookies. Ralph gives away <math>\frac{1}{4}</math> of his cookies to his class at school and <math>\frac{2}{5}</math> of his remaining cookies to his bus driver. How many cookies does Ralph have left?</p>	<p>9. Michelle owns jazz, rap and rock CD's. The ratio of jazz CD's to rap CD's is equal to the ratio of rap CD's to rock CD's. If Michelle owns 4 jazz CD's and 16 rock CD's, how many rap CD's does she own?</p>

Page 1

- seven million
- 48,000
- 1507
- 2044
- 962
- 113,460
- $161\frac{11}{25}$
- \$45
- 1200 ft
- 4252
- 17856
- n = 1050

Page 2

- 15.38
- n = 72
- 36
- $2\frac{7}{12}$
- $3\frac{1}{2}$
- $5\frac{3}{4}$
- $3\frac{4}{7}$
- 2.3; 23; 230
- 25; 144; 64;  $\frac{1}{27}$
- 3706
- 1316
- 619

Page 3

- 24
- 68
- 46.68
- 4.618
- \$4.20
- 5.369
- 89.48
- 34.75
- 170.188
- 37
- $8\frac{1}{12}$
- $5\frac{5}{8}$

Page 4

- 4
- $1\frac{25}{32}$
- 105
- 35.06
- 37.96
- 3.05
- 3
- $\frac{1}{15}$
- 4
- 6 books
- 160 lb.
- 59.26

Page 5

- 4.89
- 6.6
- $2^3 \times 3$
- $1\frac{7}{18}$
- $1\frac{2}{15}$
- $10\frac{5}{8}$
- 0.8
- 25%
- 36
- 20%
- 10.57
- 40.2

Page 6

- $2^3 \times 7$
- $\frac{5}{9}$
- $\frac{10}{7}$
- $\frac{4}{5}$
- n = 21
- y = 9
- n = 9
- \$41
- 16; 42; 9
- 80%; 25%
- 59%; 70%; 41.8%; 730%
- $\frac{7}{12}$

Page 7

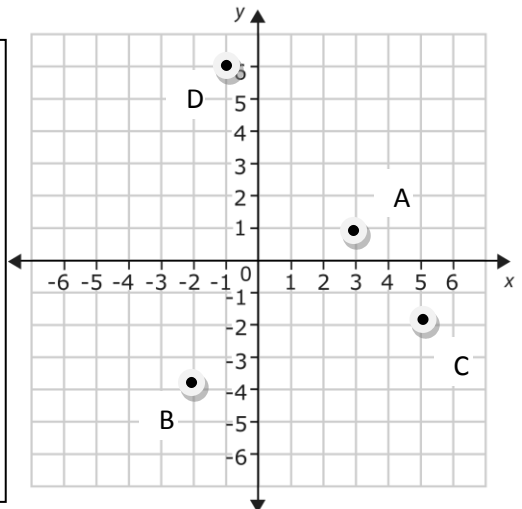
- $1\frac{13}{15}$
- 60
- 36
- 350
- \$0.37 or 37
- >; >; <
- 27
- 21
- 9
- 50
- 7.463; 7.631; 7.64
- 9

Page 8

- b
- c
- c
- $\frac{29}{8}; \frac{59}{10}; \frac{38}{9}$
- $10\frac{2}{3}; 6\frac{1}{4}; 4\frac{2}{9}$
- <; >
- n = 12
- n = 18
- n = 6
- 282
- 11,239
- <; >

Page 9

- 14
- 38
- 0.05; 0.28; 0.045
- 10
- 47%; 0.3%; 190%
- $\frac{7}{20}; \frac{99}{100}; 5\frac{2}{5}$
- See graph below
- (-4, -2)



Page 11

- $y - 12 = 14$
- n = 21
- a = 11.8
- $w - 15 = 24$ ; w = 39
- m = 154
- b = 8
- k =  $2\frac{2}{3}$
- no
- (0,3), (1, 5), (2, 7)
- $460 = -4x$ ; 115 tickets

Page 12

- 19 students
- \$17.50
- 50 sections
- \$6
- P = 64 feet; A = 192 ft<sup>2</sup>
- 6 sec
- 2:22 pm
- 27 cookies
- 8 rap CD's

Page 10

- A = 26.46 m<sup>2</sup>; P = 20.6 m
- A = 27.04 m<sup>2</sup>; P = 20.8 m
- \$490.50
- 70%

11.



12.

