







# Weekly Math # 16




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

Date Due: \_\_\_\_\_ Block: \_\_\_\_\_

**YOU MUST SHOW WORK for all of the problems .**

**You may use a calculator for problems with the .**

<p>1. Evaluate the expression using the values <math>a = -4</math>, <math>b = 8</math> and <math>c = 5</math></p> $\frac{bc}{a} + (c + a)$	<p>2. Which expression is equivalent to <math>-\frac{1}{3}(12x - 15)</math>?</p> <p>a) <math>36x - 45</math></p> <p>b) <math>4x - 15</math></p> <p>c) <math>3x + 5</math></p> <p>d) <math>-4x + 5</math></p>	<p>3.  Beginning in 2000, a sports team increased its ticket price by a constant amount each year until 2010.</p> <ul style="list-style-type: none"> <li>• A ticket cost \$48 in 2005.</li> <li>• A ticket cost \$50.50 in 2006.</li> </ul> <p>How much did a ticket cost in 2000?</p>	<p>4.  Which equation models the relationship in the table?</p> <table border="1" data-bbox="1015 514 1258 714"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>163.5</td> </tr> <tr> <td>6</td> <td>327</td> </tr> <tr> <td>11</td> <td>599.5</td> </tr> </tbody> </table> <p>a) <math>y = 53x</math></p> <p>b) <math>y = 53.5x</math></p> <p>c) <math>y = 54x</math></p> <p>d) <math>y = 54.5x</math></p>	x	y	3	163.5	6	327	11	599.5	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>
x	y											
3	163.5											
6	327											
11	599.5											
<p>5. Solve.</p> $x - 2 = -6$	<p>6. On a group project, Richard does <math>\frac{1}{4}</math> of the work, Bonita does <math>\frac{3}{16}</math>, Gary does <math>\frac{1}{8}</math> and Sierra does <math>\frac{7}{16}</math>. Who does the <b>least</b> work?</p> <p>a. Bonita</p> <p>b. Gary</p> <p>c. Richard</p> <p>d. Sierra</p>	<p>7.  You can purchase 4 pounds of apples for \$3.96. What is the unit price for apples?</p>	<p>8. Simplify the expression. Be sure to write the constant as the last term of the expression.</p> $-7 - 4b - 2 + 3b$ <p>a. <math>b + 5</math></p> <p>b. <math>-7b - 9</math></p> <p>c. <math>-b - 9</math></p> <p>d. <math>-7b + 5</math></p>	<p>5. _____</p> <p>6. _____</p> <p>7. _____ per pound</p> <p>8. _____</p>								
<p>9.  At the party, there are a total of 60 people. If there are 28 boys at the party, what is the simplified ratio of boys to girls in attendance <b>written as a fraction</b>?</p>	<p>10. Compare the area of the square to the area of the rectangle as a fraction in simplest form.</p> <p>4 in. </p> <p>6 in. </p> <p>8 in.</p>	<p>11. Sean bought 24 pecins for \$0.68 each. If he paid with a \$20 bill. How much change did he receive?</p>	<p>12. A tour bus travels 400 miles on the first day of a trip. Each day after that the bus travels half the distance it went the day before. The total trip is 775 mi. How many days does the trip take?</p>	<p>9. _____</p> <p>10. _____</p> <p>11. _____</p> <p>12. _____</p>								

<p>13. You want to be in school at 8:00 A.M. It takes you <math>\frac{1}{2}</math> hour to get dressed, 20 minutes to eat your breakfast, and <math>\frac{1}{6}</math> hour to bike to school. What is the latest time you should wake up?</p>	<p>14. Eric wants to cut 2 lengths from a 6 foot long board. The length of the two pieces he wants to cut are <math>1\frac{5}{6}</math> feet and <math>2\frac{2}{3}</math> feet. How much of the 6 foot board would be left over?</p>	<p>15.</p> <table border="1" data-bbox="735 113 979 464"> <thead> <tr> <th></th> <th>Room 101</th> <th>Room 104</th> <th>Room 107</th> </tr> </thead> <tbody> <tr> <th>Girls</th> <td>12</td> <td>8</td> <td>9</td> </tr> <tr> <th>Boys</th> <td>16</td> <td>20</td> <td>12</td> </tr> </tbody> </table> <p>In which two rooms is the ratio of girls to boys the same?</p> <p>a. Rooms 101 &amp; 104 b. Rooms 104 &amp; 107 c. Rooms 101 &amp; 107</p>		Room 101	Room 104	Room 107	Girls	12	8	9	Boys	16	20	12	<p>16. The length of a rectangle is 6 more than the width. Which expression represents the area of the rectangle?</p> <p>a. <math>4x + 12</math> b. <math>2x + 6</math> c. <math>4(x + 6)</math> d. <math>x(x + 6)</math></p>	<p>13. _____</p> <p>14. _____</p> <p>15. _____</p> <p>16. _____</p>
	Room 101	Room 104	Room 107													
Girls	12	8	9													
Boys	16	20	12													
<p>17. Write the fraction as a decimal. Don't forget to show your work.</p> <p style="text-align: center;"><math>\frac{6}{15}</math></p>	<p>18.  Find the unit rate. DO NOT round your answer.</p> <p style="text-align: center;">686 cars were made in 56 days</p>	<p>19.  Which is the better buy?</p> <p>a. 4 notebooks for \$4.75 b. 5 notebooks for \$5.99</p>	<p>20. Which equation is equivalent to <math>3(2 - x) - 14 + 6x</math></p> <p>a) <math>9x - 17</math> b) <math>6x - 8</math> c) <math>3x - 8</math> d) <math>9x - 15</math></p>	<p>17. _____</p> <p>18. _____ cars per day</p> <p>19. _____</p> <p>20. _____</p>												
<p>21. Write the ratio as a fraction in simplest form.</p> <p style="text-align: center;">7 to 63</p>	<p>22. In 2014 NFL Quarterback, Drew Brees led the league in passing yards throughout the 16-game season. If Brees passed 4,952 yards, how many yards per game did he pass?</p>	<p>23.  If there are 15 days left until report cards go home, how many minutes are left?</p>	<p>24. Solve the equation.</p> <p style="text-align: center;"><math>x + 2\frac{1}{4} = -5\frac{1}{3}</math></p>	<p>21. _____</p> <p>22. _____ yards per game</p> <p>23. _____</p> <p>24. _____</p>												