





Summer Math Calendar for Students Entering 7th Grade

<p>1. Draw a vertical number line and represent the following integers on it: -7,2,0,-3,5,10</p>	<p>2. Set up a proportion and use it to find out what percent of 75 is 40.</p> <div style="text-align: center;">  </div>	<p>3. Use the following set of clues to determine a secret number: 1) 2 digit 2) 13 is a factor 3) sum of the digits is 11 Write your own set of clues to determine your secret number</p>	<p>4. For your birthday you get 6 pints of ice cream and you serve $\frac{3}{4}$ pint to each of your guests? How many guests can be served at your party?</p> <div style="text-align: center;">  </div>	<p>5. You decide to make cookies. The recipe calls for $\frac{1}{2}$ cup of butter, $\frac{3}{4}$ cup of chocolate chips and $\frac{3}{8}$ cups of chopped almonds. When you combine these ingredients how much mixture do you have? If you decide to triple the recipe how much butter will you need?</p>	<p>6. In a class of 24 6th graders, 25% walk to school, $\frac{1}{8}$ bike to school, $\frac{1}{3}$ ride the bus and the rest carpool. What percentage of the students carpool. Write the number as a decimal and fraction. How many students is this?</p>	<p>7. Is $2x+4=2(x+1)$?</p> <p style="margin-top: 20px;">Prove it</p>
<p>8. Write an expression to represent the following: the product of 6 and a number decreased by 11. Evaluate the expression for n=12</p>	<p>9. Evaluate the following expressions for x=7 $2x-13$ $X+27$ $(5+x)/2$.</p>	<p>10. Write a story problem that $2x+3=11$ could be used to solve.</p>	<p>11. Find the difference between 203.45 and 12.345.</p> <div style="text-align: center;">  </div>	<p>12. Is 3 a solution to $x>9$? How do you know? Give a solution to the inequality? Is this the only answer?</p>	<p>13. If a cube is 3 cm on each edge what is the volume of the cube? If the edge length is doubled what is the new volume?</p>	<p>14. A cylinder and a cone have the same radius and height. What is the difference between the volume of both the cylinder and cone?</p>
<p>15. If a basketball has a diameter of 24 cm, what is its volume?</p>	<p>16. A pyramid has a volume of 7 cm cubed, what is the volume of a rectangular prism with the same dimensions?</p>	<p>17. In Ms. Ash's class there are 14 boys and 16 girls. What is the ratio of boys to total number of students in the class?</p>	<p>18. On a blueprint of a house, the scale is 0.25 inches equals 2 feet. How wide is the kitchen if it measures 1.5 inches on the blueprint?</p>	<p>19. Find the multiple of 3, 11, and 22 that is less than 100.</p>	<p>20. For every 4 fish in her pond Jasmine must have five plants. What is the maximum number of fish she can have if she has 75 plants?</p>	<p>21. A race car can travel 2 laps in 5 minutes. At this rate how long will it take him to travel 75 laps?</p>
<p>22. Kenndi has a rectangular box that is 6 cm wide 3 cm long and 2 m deep. How much wrapping paper will she need to cover the entire box?</p>	<p>23. The ratio of apples to oranges in a fruit bowl is 1 to 4. If there are 5 apples in the bowl how many oranges are there?</p>	<p>24. Which car is traveling faster?</p> <p>Car 1: 300 miles in 5 hours</p> <p>Car 2: 250 miles in 4 hours</p>	<p>25. If you bought 3 CDs, each costing \$12.99, and paid with a \$50 bill, what would your change be? (Bonus: If you had to pay 6% sales tax also, what would your change be?)</p>	<p>26. Write the ratio of 7 girls to 5 boys in two other ways.</p> <div style="text-align: center;">  </div>	<p>27. You surveyed 10 people and six of them prefer lemonade to water. Write the number of people who prefer lemonade as a decimal and those who prefer water as a percent.</p>	<p>28. The ratio of computers to calculators is 5 to 9. Find the number of computers if there are 72 calculators?</p>