

Summer Math Activities for Students Entering 5th Grade - July

<p>1. Play <i>Pan Balance Shapes (Fixed Values)</i> on the web</p> <ul style="list-style-type: none"> ◆ illuminations.nctm.org ◆ Click on ACTIVITIES ◆ Click 3-5. Search ◆ Select <i>Pan Balance-Shapes.</i> <p>Put 1 purple ▲ and 1 yellow ◆ on the right side. Find 3 combinations to balance the scale.</p>	<p>2. Read <i><u>Greedy Triangle</u></i> by Marilyn Burns. Go on a hexagon scavenger hunt. Where can you find hexagons? Make a pattern with hexagons.</p>	<p>3. Using the GLOBE or weather.com and record the forecasted high temperatures for the next 5 days. Make a line graph of the forecasted temperatures.</p>	<p>4. Over the next 5 days, record the actual high temperature.</p> <p>Make a bar graph of the actual high temperature over these 5 days.</p>	<p>5. If you did the activities for day 3 and 4 compare the forecast with the actual temperatures. What was the difference for each day? Make a table to show the difference in temperature.</p>	<p>6. Find all the different ways you can divide a deck of cards into equal amounts with no cards left over. Write division sentences to show the different ways you found.</p>	<p>7. Read <i><u>One Grain of Rice</u></i> by Demi. Calculate how many grains of rice she will receive on day 18. How many will she have altogether?</p>
<p>8. Play <i>Product Game</i> on the web.</p> <ul style="list-style-type: none"> ◆ illuminations.nctm.org ◆ Click on ACTIVITIES ◆ Click 3-5. Search ◆ Select <i>Product Game.</i> <p>Read the directions carefully. Move the rectangles at the bottom to try to get 4 products in a row.</p>	<p>9. What number am I? I am > 3,449 and I am < 3,502. I have a 1 in my ones place and a zero in my tens place. Create your own number riddle.</p>	<p>10. Read <i><u>Lemonade for Sale</u></i> by Stuart Murphy. Make a bar graph, by days of week, of the number of dogs you see each day.</p>	<p>11. Begin with 35 and count by 7s to 77.</p> <p>Begin with 36 and count by 6s to 66.</p>	<p>12. Play a game like</p> <p style="text-align: center;">Yahtzee or Mastermind</p>	<p>13. Flip a coin 25 times. Write a fraction to show how many times it came up heads and one to show how many times it came up tails.</p>	<p>14. Write two different number sentences that are equal to 48. Each number sentence must contain the four operations (addition, subtraction, multiplication, and division)</p>
<p>15. Practice Fact Online</p>	<p>16. A cantaloupe weighs 56 ounces. There are 16 ounces in a pound. How many pounds does the cantaloupe weigh?</p>	<p>17. Linda is going to have new flooring put in her bedroom. If her bedroom is 8 feet by 10 feet how many square feet of flooring will be needed? What is the perimeter of Linda's bedroom?</p>	<p>18. Play <i>Fraction Game</i> on the web.</p> <ul style="list-style-type: none"> ◆ illuminations.nctm.org ◆ Click on ACTIVITIES ◆ Click 3-5. Search ◆ Select <i>Fraction Game.</i> <p>How many moves did it take to get all the red markers to the right side? Can you beat your score?</p>	<p>19. Imagine you are sharing 1 giant cookie among yourself and 5 friends. If you share it fairly, what fraction will each friend receive?</p>	<p>20. At the grocery store estimate how many bananas total will weigh one pound. Check your estimate. What's the cost to buy 2 lbs of bananas?</p>	<p>21. Ben has 6 square tiles. Each tile has a width of 8 inches. He lays the tiles down in a long row. What is the perimeter of the row of tiles?</p>
<p>22. Name some capital letters that when printed have at least one pair of parallel lines. Did you find any that have two pair of parallel lines?</p>	<p>23. Practice facts Online</p>	<p>24. Make a meter stick out of materials around your home using a ruler as a benchmark. What can you find that is 1 meter long?</p>	<p>25. Start with 3,542. Add 100 more. Subtract 50. Add 8.</p> <p>What's your number? Is this a square number? Make your own number problem.</p>	<p>26. $12 \div 2$ $24 \div 2$ $36 \div 2$ $48 \div 2$ $60 \div 2$</p> <p>What's your strategy? Do you see a pattern?</p>	<p>27. Jose swam 3 laps each day and Micah swam four times as many laps as Jose each day. How many laps did Micah swim in 7 days?</p>	<p>28. 6×6 6×7 6×8 7×8 7×9 9×6 9×8</p> <p>What's your strategy?</p>

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<p>1. Sophia runs twice as fast as her friend Mia. If Mia runs 3 mph, how long will it take Sophia to run 6 miles? 9 miles?</p>	<p>2. Practice Facts Online</p>	<p>3. Show 4 different ways to make \$1.56 using coins and/or bills.</p>	<p>4. At the playground, time 5 children running across the field (or time 1 friend 5 times). Make a line graph of their finishing line.</p>	<p>5. What number is 10 more than 4,492? What number is 300 more than 4,830? What number is 500 more than 4,654?</p>	<p>6. Play Product Game on the web.</p> <ul style="list-style-type: none"> ◆ illuminations.nctm.org ◆ Click on Activities ◆ Click 3-5. Search ◆ Select Product Game <p>Read the directions carefully. Move the rectangles at the bottom to try to get 4 products in a row.</p>	<p>7. Evan can paint 18 pots in one hour. His brother can paint 4 fewer pots per hour than he paint. How many pots can they paint in 3 hours, 30 minutes?</p>
<p>8. Tyler sent a package with one 60 cent stamp, four 32 cent stamps, three 25 cent stamps, and four one cent stamps. What was the total postage on the package?</p>	<p>9. Mia drank 3 quarts of water at the playground. How many more 8 oz. cups does she need to drink to make a gallon? How many more total ounces is that?</p>	<p>10. Play the Factor Game on the web.</p> <ul style="list-style-type: none"> ◆ illuminations.nctm.org ◆ Click on Activities ◆ Click 3-5. Search ◆ Select Factor Game ◆ Select Game Type 30 <p>What's your score if you play against the computer? Against a partner?</p>	<p>11. What number am I? The digits in my number are 3, 8, 4, and 1. I am odd. I have a 4 in my hundreds place. I am less than 2,000. Create your own riddle.</p>	<p>12. Read <u>Divide and Ride</u> by Stuart Murphy.</p> <p>How can 13 children be arranged on a park ride that seats 2? 3? 4? 5? How many kids are left waiting?</p>	<p>13. Find the area of your bedroom floor. What room in your house could have twice the area of your bedroom? Half the area of your bedroom? Check.</p>	<p>14. A tree was planted 36 years before 1971. How old is the tree in the year 2010? How old will this tree be when you graduate from high school?</p>
<p>15. Three consecutive numbers have a sum of 30,000. What are the numbers? After you solve this problem make up a similar one for a family member or friend to solve.</p>	<p>16. Read <u>Anno's Mysterious Multiplying Jar</u> by M. Anno.</p> <p>If there are 2 towns with 8 schools and 11 doors in each school, how many doors in all?</p>	<p>17. 8×6 8×7 8×8 8×9</p> <p>What's your strategy? Skip count by 8s forward & backward.</p>	<p>18. Make the largest and the smallest numbers you can using 4, 1, 7, 8, 5 and 2. Find their difference and their sum.</p>	<p>19. Gary pays for his lunch with a \$5.00 bill. He receives 5 quarters, 1 dime, 2 nickels, and 4 pennies in change. How much did his lunch cost?</p>	<p>20. $35 \div 7$ $42 \div 7$ $49 \div 7$ $56 \div 7$ $63 \div 7$</p> <p>What's your strategy? Skip count by 7s forward & backward,</p>	<p>21. Go on a 3-D scavenger hunt. How many cylinders, pyramids, cubes, rectangular prisms, and cones can you find today? Create a table with your data.</p>
<p>22. Practice Facts Online</p>	<p>23. Read <u>G is for Googol</u> by David M. Schwartz (pp 26-27).</p> <p>Make a mobius strip. What happens when you try to paint or color just one side?</p>	<p>24. Determine the pattern. What comes next in each pattern?</p> <p>1, 1, 2, 4, 7, _____</p> <p>4, 9, 16, 25, _____ 49, 64</p> <p>Make your own pattern.</p>	<p>25. Fill a sandwich bag with cereal. Estimate how many pieces are in the bag. Count to see how many there are. Find the difference between your estimate and the actual number.</p>	<p>26. Find two objects in your house for which the length of one is double the length of the other. Measure the length in centimeters.</p>	<p>27. Measure the distance you can jump from a standing position. Record the distance of 5 jumps. What is your total?</p>	<p>28. Draw a design using 3 different shapes. See if your partner can make the same design just by listening to your directions.</p>