

Name _____

PCS 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 <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. Go on a hexagon scavenger hunt. Make a list of all the places you find hexagonal shapes. Make a pattern with hexagons.</p>	<p>3. Using a newspaper, TV 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>Using a different color, add this data to your line graph from yesterday's activity.</p>	<p>5. Play math games on <i>SumDog</i> for 10 minutes.</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. Play a math or strategy game like</p> <p style="text-align: center;"><i>Yahtzee, Mastermind, Clue, Othello, Connect4.....</i></p> <p>No partner? Play an online version.</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.</p> <p>Create your own number riddle.</p>	<p>10. Record the number of minutes (or hours) that you read each day for one week. Display the data in a bar graph.</p>	<p>11. Begin with 7 and count by 7s to 77.</p> <p>Begin with 6 and count by 6s to 66.</p>	<p>12. Play a math or strategy game like</p> <p style="text-align: center;"><i>Yahtzee, Mastermind, Clue, Othello, Connect4.....</i></p> <p>No partner? Play an online version.</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. Play a math or strategy card game such as</p> <p style="text-align: center;"><i>Rummy, Crazy Eights, Uno, BlackJack...</i></p>	<p>16. Play the <i>Amoeba Multiplication</i>, game (Level A) for 10 min. [PCS gr. 3-4 math page → Operations → Multiplication]</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 <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? (Hint: draw a picture)</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. Go to the PCS grade 3-4 math practice page. Play <i>Math Magician</i> for 5 min. & <i>SumSense Multiplication</i> for 5 min.</p>	<p>24. Play the Ruler Game (online). See if you can earn 300 points on the 1/8 level. [PCSLinks → gr. 3/4 Math page --> Fractions/Decimals]</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>

Links to Sumdog, MobyMax and other grade level math sites can be found at <http://67.225.130.61/> → Students → Math Practice Sites

PCS Summer Math Activities for Students Entering 5th Grade - August

<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. Play a logic game on the PCS gr. 3-4 Math practice page.</p> <p>PCS website→ Students → Math Practice Sites→ Grade Level Links</p>	<p>3. Show 4 different ways to make \$1.56 using coins and/or bills.</p>	<p>4. Play <i>Sumdog</i> for 10 minutes or do regular Math activities on <i>Moby Max</i> for at least 5 minutes plus Fact Fluency for 5 minutes.</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 Evan. How many pots can they paint in 3 hours all together?</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. Play the <i>Amoeba Multiplication</i>, game (Level A or B) for 10 min. [PCS gr. 3-4 math page → Operations → Multiplication]</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 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.</p> <p>Create your own riddle.</p>	<p>12. Play 2 of the angle measurement games on the PCS website.</p> <p>[PCS gr. 3-4 math page → Measurement → Angle measurement]</p>	<p>13. Estimate the length and width of your bedroom. Then measure and find the actual length and width. Last, find the perimeter of your bedroom.</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 300. 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. Play any Multiplication Fact practice games on the PCS gr. 3-4 Math practice page for at least 10 minutes.</p>	<p>17. 8×6 8×7 8×8 8×9</p> <p>What's your strategy? Skip count by 8s to 88 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 bar graph with your data.</p>
<p>22. Play the <i>Amoeba Multiplication</i>, game (Level A or B) for 10 min. [PCS gr. 3-4 math page → Operations → Multiplication]</p>	<p>23. Play any online Math game on the PCS gr. 3-4 Math practice page for at least 10 minutes.</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 a friend or family member can make the same design just by listening to your directions.</p>

Links to Sumdog, MobyMax and other grade level math sites can be found at <http://67.225.130.61/> → Students → Math Practice Sites

Name _____

PCS Summer Math Activities - July Records

1.	2.	3.	4.	5.	6.	7.
8.	9.	10.	11.	12.	13.	14.
15.	16.	17.	18.	19.	20.	21.
22.	23.	24.	25.	26.	27.	28.

Name _____

PCS Summer Math Activities - August Records

1.	2.	3.	4.	5.	6.	7.
8.	9.	10.	11.	12.	13.	14.
15.	16.	17.	18.	19.	20.	21.
22.	23.	24.	25.	26.	27.	28.