Summer Math Calendar

For Students Entering Grade 5

The activities on this summer math calendar will review math concepts and skills of the grade that has just been completed during the 2017-2018 school year. Just a few minutes spent "thinking and talking math" will help reinforce the math that has been learned and begin to bridge the foundation for extending to the concepts that will be developed next year. The goal is for you to have fun thinking and working to communicate mathematical ideas. While you are working think about how the solution was found and why you chose a particular strategy.

The calendar consists of 2 pages, a June calendar and a July calendar. Each calendar contains short math problems or guides you to play online math games. **You need to complete 2 activities each week, for a total of 20 different items during your summer break**. I would suggest getting a folder so you can neatly store and keep track of all calendar work. Please read each problem carefully so you understand what is being asked and are able to complete it correctly**. In order to receive full credit for a problem:**

1. **Do all the work on plain, lined notebook paper.**
2. **Record the number of the calendar items on your paper with the work.**
3. **Show your mathematical thinking neatly.**
4. **Write your calculations neatly.**
5. **Have your parent check over your work and initial each box you complete.**

Although not required, it is highly recommended that you go online or use an app weekly to practice your basic facts, particularly multiplication and division, so that they are not forgotten over the summer. Reminder: you are expected to know all basic facts through 12 accurately and fluently.

> ### This calendar is due the first day of school, August 8, 2018, with all work stapled to it.

☀ June 2018 Entering 5th Grade Mathematics Calendar ☀

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1. Estimate how many jumping jacks you could do in a minute. Then, actually try it! Record your estimate, how many you completed, and find the difference between the estimate and how many you completed.	2. Hamburgers cost $2.95 and french fries are $1.50. What do 3 hamburgers and 4 fries cost?
3. If it costs $26.95 for rides at Six Flags, how much will it cost for 7 people?	4. You want to buy a soda for $.79 and a bag of chips for $0.50. You only have $2.00. Will it be enough? Explain how you know.	5. Skip count by 4's forward & backward from 0 to 48. Then solve: 20 ÷ 4 24 ÷ 4 28 ÷ 4 32 ÷ 4 What's your strategy?	6. Flip a coin 25 times. Make a tally chart for how many times it lands on heads or tails. Write a fraction for your head and tail data. Try it again. Were the results the same?	7. Johnny can kick a soccer ball 50 yards. Jasmine can a ball 175 feet. Who can kick further? How much further? Explain how you determined the answer.	8. Make up a story problems involving addition, subtraction, multiplication and division. Have a member of your family solve your problems.	9. Find out how much you weigh. Weigh another member of your family. What is the difference?
10. Somebody married on this date in 1973 will be celebrating which anniversary today? Explain how you determined your answer.	11. Would you rather have your height be made of a stack of nickels or quarters, lined up end to end? How much would you be worth?	12. If you played outside for 3 and a half hours, how many minutes would that be?	13. Survey 10 friends or relatives to find out their favorite outdoor activity. Graph the results.	14. Mia drank 3 quarts of water at the playground. How many more cups does she need to drink to make a gallon? How many ounces is that?	15. Begin with 35 and count by 7s to 77.Begin with 36 and count by 6s to 66.	16. Make a set of flash cards of multiplication facts. Practice your facts with a friend.
17. Estimate the following in inches: your height; length of your foot; distance from your elbow to the tip of your little finger. Measure to see how close you are.	18. 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?	19. Vowels are worth $50 each, consonants are worth $40. Can you make a word worth exactly $200? $600?	20. Show 4 different ways to make $1.56 using coins and/or bills.	21. Round 4,476; 1,284; 3,446; 14,321 to the nearest tens, hundreds, and thousands place.	22. Draw a design using symmetry.	23. Place a plastic bowl on the floor and stand 20 steps away. Toss a coin in the bowl and record how many times it lands inside. Express this as a fraction. Repeat.
24. Visit the website www.mathplayground.com and play the Triplets to find equivalent fractions. How did you do?	25. Visit the website www.mathplayground.com and play the logic games. How did you do?	26. Watch a digital clock. Add up the digits. At what time is the sum the greatest?	27. Use 10 straight lines. How many triangles and squares can you make?	28.. Have a scavenger hunt for real-world examples of parallel lines (ex. railroad tracks).	29. Find the difference for each problem. 857 - 429 = 957 - 429 = 967 – 429 = 967 – 439 = Check with addition	30. Estimate how much a bag of M&M s and a bottle of juice would cost. Then go to the store and check your guess. Record your estimate, the actual cost, and find the difference between your estimate and the actual cost.

☀ July 2018 Entering 5th Grade Mathematics Calendar ☀

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1. How many months are there in 4 years?	2. Make a set of flash cards of division n facts. Practice your math facts with a friend.	3. Play the Product Game At www.illuminations.nctm.org. Record the strategy that you used.	4. In the number 85,632, what number is in the tens place, hundreds place, and thousands place?	5. Make the largest and smallest numbers you can find using the digits 4, 1, 7, 8 and 2. Find their difference and sum.	6. How many different ways can you show the number 125?	7 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 room? Check.
8. Write down the numbers you see on 2 license plates. Create 4 math problems with these same numbers?	9. Identify and classify angles: acute (less than 90°) obtuse (greater than 90°), right (90°) in everyday things (buildings, bridges, furniture…)	10. Use 8 straight lines. How can you make 4 triangles and 2 squares?	11. Flip a coin 30 times. Record heads and tails. Which came up the most? How many more times?	12.. Candy is 4 bags for $2.00 at the store. Is this a better price than $.60 each? Explain how you know.	13. In the number 6,734, what number is in the tens place, hundreds place, and thousands place?	14.. 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.
15. At the grocery store, estimate how many bananas will weigh one pound. Check your estimate. What's the cost to buy 2 lbs. of bananas?	16. Write a word problem whose answer is 154. Have someone solve the problem.	17. Survey 10 friends or relatives to find out their favorite outdoor activity. Graph the results.	18. Look at weather in the paper across the nation. Look at the highest temperature and the lowest temperature, What is the difference between them?	19. Mary spent $4.95 for lunch. Her brother spent $8.50. How much did they spend all together?	20. If you watched TV today for 6 hours. How many minutes would that be?	21. If you read this summer for 15 hours. How many minutes would that be?
22.. Go on a 3-D scavenger hunt. How many cylinders, pyramids, cubes, rectangular prisms and cones can you find today? Organize your data.	23. Look through a catalog or newspaper ad. Pick out what you need for school. Estimate how much you'll spend on the supplies.	24. As of today, record the Wins and Losses of the Dbacks this season. Estimate the Wins and Losses at the end of the season. Explain your thinking to an adult.	25. List some capital letters (E, F…) that have one pair of parallel lines. Are there any that have two pair of parallel lines?	26. Write down the names and prices of 5 cars you find in the newspaper. Order the prices from least to greatest. Round the prices to the nearest thousand.	27. Make the largest and smallest numbers you can find using the digits 4, 1, 7, 8, and 2. Find their difference and sum.	28 Figure out how many hours are in a week and then a year. How many hours have you been alive?
29. Measure the perimeter of two different windows in your home. Find the difference of the perimeters.	30.	31.				