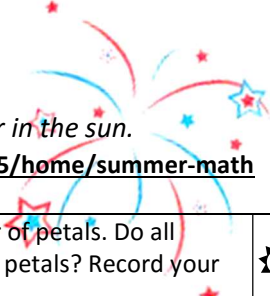# Summer Math Students Entering Grade 3 - July

*Complete **at least** 12 of the activities below for July. As you complete each activity color in the sun.*
Additional information and activities can be found at: **https://sites.google.com/a/franklinps.net/math-k-5/home/summer-math**

| | | | |
|---|---|---|---|
| **Addition War!** It is just like regular War, but you turn over 2 cards and add them up. The highest sum wins the round. Try it with 3 cards at a time.  Challenge: Multiplication War! | ☼ | Find a flower with an odd number of petals. Do all flowers have the same number of petals? Record your findings in a pictograph. | ☼ |
| **Pair Hunt!** Be on the lookout for things that come in pairs around your house, your neighborhood, even on you. How many **pairs** did you find? *Flip-flops, eyes, salt & pepper shakers…* | ☼ | Happy Birthday USA! Thomas Jefferson is important today. Find what coin he is on. How many of those coins make $1.00? How many equal the bill he is on? | ☼ |
| I woke up today sometime between 6:45am and 9:55am and noticed all 3 digits on my alarm clock were even and added up to 14. What are the 3 times I could have woken up? Make up a problem like this to see if somebody can figure out what time you woke up today. | ☼ | I went to the beach on 4 different days and collected a total of 20 shells, but I never collected the same amount twice. What are some different ways I could have found 20 shells? Can you think of more than one way to get 20 without the same number twice? | ☼ |
| Make a paper airplane and time how long you can get it to fly. The world record is 29 seconds. How close can you come? | ☼ | Make a paper airplane and then unfold it.  What shapes do you see on the paper from the folds you made? | ☼ |
| The distance record for a paper airplane is 226 feet. How far can you throw a paper airplane? Measure and find out. Find out how close you came to the record. How far is 226 feet? | ☼ | **Read** – The Greedy Triangle by Marilyn Burns. Follow along using toothpicks to record the shapes that you see. Don't forget to log your reading! | ☼ |
| **Number Hunt!** Look around your house and yard for numbers. Keep track of how many even and odd numbers you find. Did you find more even or more odd numbers? | ☼ | Think of a special day you are looking forward to. How many days until that day? How many weeks until that day? | ☼ |
| **Read** – The Napping House by Audrey Wood. When all of the sleepers in the story where piled up how many feet were in the bed? Don't forget to log your reading! | ☼ | Use the digits 3, 4, and 9 to write the largest number you can and the smallest number you can. Underline the digit in the tens place in the two numbers. | ☼ |
| **Roll for 30!** Roll 2 dice and make a 2-digit number. Do it again. Add or subtract (your choice) the two 2-digit numbers and see how close you come to 30. Closest to 30 wins the round. | ☼ | I counted 23 fireflies in my backyard and some more flew in and now I see 41 fireflies. How many new fireflies flew in? Make up your own firefly problem. | ☼ |
| **Close to 20!** Deal 5 cards to each player. Choose 3 of your cards to have a sum close to 20. Closest to 20 wins the round and gets all the cards. Deal 3 more cards and play again. | ☼ | Sylvie added 55+31 and Tagg added 31+55. Will they get the same sum or a different sum? Why? Does this work with subtraction too? | ☼ |
| Measure 5 objects using inches. Next measure the same 5 objects with cm. Talk to somebody at home about why the measurements are different. Are inches longer or centimeters? | ☼ | How many different ways can you make 25¢ using pennies, nickels, and dimes? Can you find more than 5 ways? More than 10 ways? | ☼ |
| Write your full name. If each vowel is worth a dime and each consonant is worth a penny, how much is your name worth? Who has the most valuable name in your family? | ☼ | Use sidewalk chalk to draw 5 rectangles. Draw a line to divide the first one in half. Now try to divide the rest of the rectangles in half a **different** way. | ☼ |
| Grab a handful of coins. Sort them by their value and then find the total. What could you buy with that? What are some things that would be too expensive? | ☼ | **Read** – Math for All Seasons by Greg Tang. Write your own math riddle and test it out on someone! Don't forget to log your reading too! | ☼ |
| **Free choice math activities.**  Did you do some math activities on your own that aren't listed here? | ☼ | **Summer Math Fact Challenge** – Practice your math facts for 5 minutes 4 times a week in July. | ☼ |

***My child has completed at least 12 of the activities for July.***

Student name: _____ Parent Signature: _____

# Summer Math Students Entering Grade 3 - August

*Complete **at least** 12 of the activities below for August. As you complete each activity color in the sun.*

Additional information and activities can be found at: **https://sites.google.com/a/franklinps.net/math-k-5/home/summer-math**

| | | | |
|---|---|---|---|
| The next time you are in the car see who can find the license plate that has the highest total when you add up the digits. What is the total of your car(s)? | ☼ | If today is the 214th day of the year, how many days are left in 2016 and then figure out how many days are left in 2016 and 2017. | ☼ |
| Go outside on a clear night and try to count as many stars as you see. Sometimes people imagine shapes, like animals or people, being created by stars, or constellations. Try to make your own numbers or shapes by connecting the stars. | ☼ | **Game!** 2 players take a card and without looking put it on their forehead. A third person calls the total sum of the 2 cards. First player to name their card becomes the caller. | ☼ |
| Sandwich Day! Ask 10 people what their favorite sandwich is and make a graph to show the results. | ☼ | Hope on one foot while counting backwards by 2's, 5's and 10's from any number. Repeat two times! | ☼ |
| A United States quarter is about an inch wide. How much would a foot of quarters be worth? How much would your foot length be worth in quarters? In dimes? | ☼ | Write down the year each member of your family was born. Put them in order from earliest to latest. What year will each person be 100? | ☼ |
| How close can you get to a bird before it flies away? Try it 10 times and when it flies away keep track of how many steps away you were. Is there a pattern? | ☼ | **NIM!** – Start with 13 objects. Each person can take away 1 or 2 items. The person to take away the last object loses. Try it with a different start number | ☼ |
| There are over 200 ways to make exactly $1.00 with quarters, dimes, nickels, and pennies! Wow! Can you find at least 10 ways? | ☼ | Have somebody time you to see how many bubbles you can blow in 2 minutes. How many more or less did you blow the second time? | ☼ |
| When I woke up I noticed the hour hand on my clock was between two numbers with a sum of 15. The minute hand was pointing at an even number. What times might I have woken up this morning? Use a clock with hands to tell time today as you do things like eat and go to bed. | ☼ | Go outside in the morning and have somebody trace your shadow. Stand in the same spot every hour and trace your shadow until the sun goes down. What do you notice? Is your shadow getting bigger, smaller, both or is it the same? | ☼ |
| To make s'mores for my family I had to buy 2 candy bars for $0.75 each, a bag of marshmallows for $2.00 and a box of crackers for $1.50. Is $5.00 enough for all the food I need? | ☼ | Pick a number between 2 and 9. Add 10 to that number mentally. Keep adding 10 until you can't go any higher or you go over 200. | ☼ |
| Measure the length of a gummy worm using your ruler. Stretch your gummy worm as far as you can without it breaking. Measure the stretched gummy worm. What is the difference in length between the original and the stretched worm? | ☼ | **Read** – Two Ways to Count to Ten by Ruby Dee. Suppose the King wanted to try a larger number such as 30. How many different ways could the animals skip count to 30? (Log your reading!) | ☼ |
| Toasted Marshmallow Day! Make a rectangular prism using toothpicks and marshmallows. What other 3-D shapes can you make? | ☼ | With chalk, write the numbers below in expanded form<br>729        846        307        514 | ☼ |
| With your sidewalk chalk draw a picture of an alien or a castle that includes 1 circle, 3 triangles, 4 squares, 4 rectangles, and 1 hexagon. | ☼ | The slowest snails in the world move at a speed of 22 inches an hour. How many inches do these snails move in half an hour? In 2 hours? From 10am to 2pm? | ☼ |
| Use your sidewalk chalk to write a giant 20 outside. Next write creative ways to make 20 ex. 30-15+5. Invite your friends and family to add their own creative ways. | ☼ | **Read** – P.Bear's New Year's Party by Paul Owen Lewis. How many guests came to P.Bear's party? Use pictures, numbers or words to show your thinking. | ☼ |
| **Free choice math activities.** Did you do some math activities on your own that aren't listed here? | ☼ | **Summer Math Fact Challenge** – Practice your math facts for 5 minutes 4 times a week in August. | ☼ |

***My child has completed at least 12 of the activities for August.***


Student name: _____   Parent Signature: _____