

# Summer Assignment for Incoming Sixth Graders

## My Favorite Number

Do you have a favorite number? I do. My favorite number is 11. It's an odd number (get it ;-)  
to have as my favorite, but there is a fun story behind it. When I was 11, I immigrated to the  
United States with my siblings. To welcome us to America, my mother decided to take us to  
Coney Island. It was my first time at an amusement park and I was enamored with the lights,  
sounds and the smell of the beach. As I walked through the park, game booth promoters  
called out to us to join in the clown games. The objective was to be the first to pop the  
clown's balloon by filling its mouth with water. I eagerly sat at station 11. On my first  
attempt I won a large stuffed rottweiler. I was excited, my mother not so much. As we  
ventured deeper into the amusement park, another agent called out to us to play another  
game, I gladly took my place at the only seat available, 11, and won a giant dalmatian. From  
that moment on, 11 became my favorite number. So tell me, what's your favorite number?

For your summer math assignment as an incoming sixth grader, you will select your favorite  
number, share stories about yourself and discover some information about the number.  
Click the links below for help if you get stuck OR Google the term! (All the directions are  
outlined below & organized in this document. You may print and complete the .pdf OR  
organize your work on looseleaf.)

### 1. Cover Page:

- a. Your favorite number and name
- b. **Personal Connection** - Write a story that explains why you picked the number.  
Tell us why your number is special or represents YOU!

### 2. Application - Determine the following:

- a. Apply the [divisibility rules](#) to determine whether or not 2, 3, 4, 5, 6, 9, or 10 are  
factors of your number. Show your work.
- b. List all the [factors](#) of your number.
- c. Is your number [prime or composite](#)? Explain why or why not.
- d. Find the [prime factorization](#) of your number. Show your work.
- e. List the first 5 [multiples](#) of your number.
- f. [Square](#) and [cube](#) your number. Show your work.
- g. Ask a friend or relative what their favorite number is. Pair this number with  
yours. Find the [GCF](#) (Greatest Common Factor) and [LCM](#) (Least Common  
Multiple) of these two numbers. Show your work.

### 3. Research - Find some fun facts about your number. Be creative. Include 3 fun facts.