## **Featuring Factorials!**



Have you ever seen a number written with an exclamation point? This is called a factorial and it tells you to multiply all the numbers from one up to that number together. For example, the number 4! is the number produced when all the numbers from I to 4 are multiplied together:  $4! = I \times 2 \times 3 \times 4$ , which equals 24.

- a) What is 10!?
- b) How many times larger is 10! than 5! ?
- c) When the number 50! is calculated and written out in full, how many zeroes are on the end?

**Solutions & Explanations:** (Solve one or solve them all. Attach more paper if you need to!)

Name \_

(First and last name, please!)

Solutions due: January 25<sup>th</sup>