

Name: _____ Date: _____

Estimating a crowd

1. To the right is a picture of the victory parade for Atlanta United's MLS Cup win! How many people are in this picture? How did you determine that?



2. In your groups discuss the following questions, Does this picture represent the entire parade route? What would you need to determine how many total people were at the parade?

3. Why is it important to be able to estimate a crowd size? List as many reasons as you can think of

4. A common way to estimate large crowds is to estimate a piece and then use that information as a baseline. In class, have your classmates stand in a 5 ft x 5 ft square to determine how many people could fit in that space. Write it below.

Estimating a crowd size

5. Atlanta is preparing for an upcoming parade for Dragon-con during Labor Day weekend. The parade route is 1 mile long and 10 feet deep on each side of the road. In your groups develop a plan for estimating the number of people that the APD should expect at the parade. Show ALL work below (or on a separate sheet of paper- Or you can use the whiteboard wall and take a picture!)

Estimating a crowd size (making a general plan)

6. A general rule of thumb is that each person will take up 2.5 ft² of space. This is a common used ratio which takes into account the average sized person and how much space she/he will leave between another person. If the APD uses this general rule of thumb, how many people can they expect on the parade route? Show ALL work below (or on a separate sheet of paper- Or you can use the whiteboard wall and take a picture!)

7. The Macy's Day Thanksgiving Parade tries to have one cop on duty for every 100 people. Based on your answer from number 6, how many cops should the APD make sure they have on duty for the parade? SHOW ALL WORK!