Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # \_\_\_\_\_ HR: \_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_

Lucky Seven

Trent, Mallory, and Ainsley are playing Lucky Seven. They toss a disk onto a number line, stand on the number where the disk lands, and then jump by 3’s across the number line. They make 10 jumps each. The winner is the person who lands on the most multiples of 7 in 10 jumps. If Trent starts on 0, Mallory starts on 1, and Ainsley starts on 2, who will win the game? To win, on which number between 0 and 10 would they want to start? If they changed the game to jumping by 2’s, where would they want to start? If they were to jump by 5’s where would they want to start?

**![C:\Documents and Settings\kartychakr\Local Settings\Temporary Internet Files\Content.IE5\Y4WUKS3N\MC900232599[1].wmf]()Be prepared to show your work (number lines) in your detailed explanation to support your findings.**