Name $\qquad$
Math 7 Honors

Directions: Use the Fundamental Counting Principle to answer each question.

| Wheel 1: The combination lock shown has 4 wheels. | 2. Each student at Hills Village Middle School is <br> given a 5-digit identification number using the <br> digits 1-9. |
| :--- | :--- |
| Wheel 2: A-J |  |
| Wheel 3: K-T 4: 0-9 | Part $\boldsymbol{A}$ How many different ID numbers are |
| possible? |  |

5. A New York State license plate uses a 7-character code. The first three characters are letters of the alphabet, but do not include I, 0, or Q . The next 4 characters use the digits $0-9$. Determine the total number of possible combinations for a license plate if the characters are allowed to repeat.

