#1. Grader was confused about initial 0's. If you break it up that way: 9.9.8.7.6.5

1st digit:
10 choose 2 = 45 minus first digit etc.

\[
\begin{align*}
\text{1st digit} & \quad \text{2nd digit} \\
9 & \quad 9.8.7.6.5 \\
\frac{1}{9} & \quad \frac{9}{2}
\end{align*}
\]

\[
\frac{9}{2} \cdot 9.8.7.6.5 = 109.8.7.6.5
\]

#2. “No restrictions” means no additional conditions. Ask if you think it’s ambiguous.

#3. The long (and likely to be wrong) way is to break the 8 chocolates into types by partition:

\[
8 = 8 + 7 + 6 + 2 = 6 + 1 + 1 + 1
\]

#4. My way was to write the table so that the turtle was at the top.

#5. There were several harder approaches. Some people first

\[
\text{If you restrict and get a larger count, you've made an error.}
\]

#6. Assign sizes to \(A_1, A_2, A_3, A_4\)

This can be done in 4 ways:

\[
(3, 2, 2, 1), (2, 3, 2, 1), (2, 2, 3, 1)
\]

Then pick elements for each set:

\[
\frac{9!}{3! \cdot 2! \cdot 2!}
\]

There were lots of extra counts.

#1. Grader didn’t realize that my solution sheet was not another homework, and it was graded! This won’t happen again.