

MAT-130 Homework 4 Spring 2021

Due Wednesday, May 5, 2021, no later than 4:45 P.M.

Name: _____

EVALUATE THE FOLLOWING EXPRESSIONS (2 points each)

You **don't have** to show work.

1.
$$\frac{3! \cdot 5!}{6! \cdot 4!}$$

2.
$$\frac{500!}{2! \cdot 499!}$$

3.
$$\frac{6!}{5! \cdot (12-11)!}$$

SOLVE THE FOLLOWING PROBLEMS (2 points each)

You **don't have** to show work.

4. How many seven-digit numbers are there in our system of counting numbers?

5. Determine the number of possible ways to mark your answer sheet (with an answer for each question) for a nine-question multiple-choice test with seven answer choices for each question.