

MAT2540, Quiz5, Spring2026

ID: _____ Name: Sol _____

- This quiz consists of 2 questions for a total of 10 points.
- You have 15 minutes to complete the quiz.
- Show all work and justify your answers.
- Wishing you success.

1. Let n be a positive integer. Show that in any set of n consecutive integers there is exactly one divisible by n .

Please check HW6 Question 9.

2. What is the minimum number of students, each of whom comes from one of the 50 states, who must be enrolled in a university to guarantee that there are at least 100 who come from the same state?

Please check HW6 question 11