Pi Mu Epsilon Problem of the Month
October 2021

An urn contains 10 balls numbered 1 to 10. Balls are randomly chosen one at a time from the urn with replacement until the sum of the numbers is at least 30. Find the average number of balls chosen.

Problem of the Month Rules:
- ⌘ Submissions must include a complete mathematical justification along with the answer.
- ⌘ Submissions may only be made by individuals or groups of two and must be dated.
- ⌘ Due date: October 28, 2021 before 5 p.m. to Drs. Poplin, Shoenthal, Ledford, Hoehner.

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