

DoNow

1. A Riemann Sum

(a) Evaluate: $\lim_{n \rightarrow \infty} \sum_{k=0}^{n-1} 4 \left(1 + \frac{3k}{n}\right)^2 \frac{3}{n}$

(b) Is this a *left box* or *right box* Riemann sum? Explain.

2. Given a pair of standard dice,

(a) What is the *probability* of “rolling a seven?”(b) Explain the meaning of *probability* in this context.**More Probability Questions**

3. The coin toss games has a player throw a coin onto a table with a grid of congruent squares painted on the table top. You win if your coin lands inside a square (without touching a line). Assume S is the length of a side of a square and R is the radius of the coin. Find the probability of making a prize winning toss (in terms of R and S).

4. Two real numbers are chosen at random between 0 and 10. What is the probability that their sum is less than 5? is more than 10?

5. Two real numbers, both between 0 and 2, are selected at random. What is the probability that their product is greater than 1?

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