MATHEMATICS

Discuss the skills of creative thinking and methods of problem-solving. Go over ways in which participants can transfer their mathematical skills to their innovations.

ASSIGNMENT

Practice Problem by CEMC POTW 7

Kurtis is creating a game for a math fair. They attach n circles, each with radius 1 metre, onto a square wall with side length n metres, where n is a positive integer, so that none of the circles overlap. Participants will throw a dart at the wall and if the dart lands on a circle, they win a prize. Kurtis wants the probability of winning the game to be at least 1 2 . If they assume that each dart hits the wall at a single random point, then what is the largest possible value of n?

Solution : https://cemc.uwaterloo.ca/resources/potw/2023-24/English/POTWD-23-D-07-S.pdf

ADDITIONAL RESOURCES

<u>https://courseware.cemc.uwaterloo.ca/40</u>