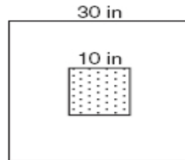


Name: \_\_\_\_\_

- 1     The accompanying diagram shows a square dartboard. The side of the dartboard measures 30 inches. The square shaded region at the center has a side that measures 10 inches. If darts thrown at the board are equally likely to land anywhere on the board, what is the theoretical probability that a dart does not land in the shaded region?
- 010634a



- 2     A square dartboard is represented in the accompanying diagram. The entire dartboard is the first quadrant from  $x = 0$  to 6 and from  $y = 0$  to 6. A triangular region on the dartboard is enclosed by the graphs of the equations  $y = 2$ ,  $x = 6$ , and  $y = x$ . Find the probability that a dart that randomly hits the dartboard will land in the triangular region formed by the three lines.
- 010231a

