

1. What is your name?
2. A circle is inscribed in a 12' by 12' square. An experiment is conducted in which a very sharp pin randomly pricks the interior of the square. For each of the following events, predict the probability that it occurs; display the computation:

- A. A point in the interior of the square is pricked but it is not in the interior of the circle.

$$(144 - 36\pi) \div 144 \approx 0.2146$$

- B. A point on the circle is pricked.

$$0$$

- C. The center of the circle is pricked.

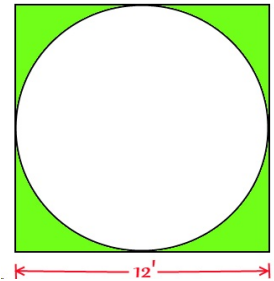
$$0$$

- D. A point in the interior of the circle is pricked.

$$36\pi \div 144 \approx 0.7854$$

- E. A point in the interior of the square is pricked.

$$1$$



Side bar computation:

The radius of the circle is 6, so the area of the interior of the circle = 36π .

The area of the interior of the square is 144.

The area of { points in the interior of the square } – { points in the interior of the circle }
 = $144 - 36\pi$

3. Smile.

