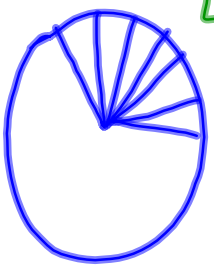
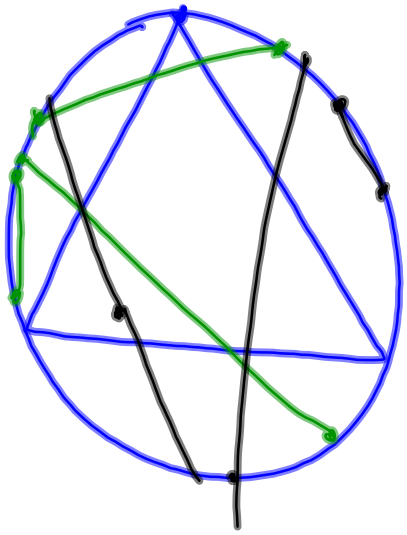
GROUP	YES	NO	2/P
Ehhê	93 (68.8%)	42	2.907
Chiffons	69 (67.0%)	34	2.985
CutieTLs	64 (60.4%)	42	3.311
TOTAL	226 (65.69%)	118	3.045

$\pi \approx \frac{2L}{xP}$ — length of stick

dist. btw. //

$L \leq x$.





Circle

Equil. Δ

CHORD

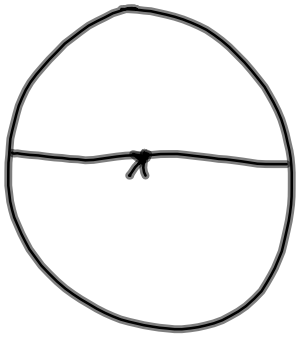
Bertrand's PARADOX

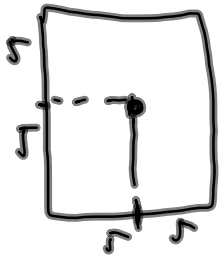
Probability Chord length > length of A side?

$\frac{1}{2}$, $\frac{1}{3}$, ?

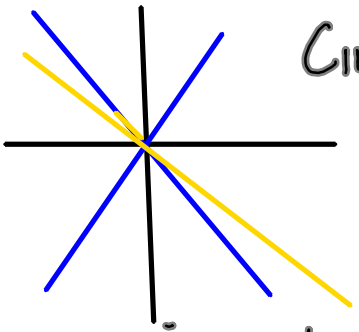
$\pi = \frac{\text{Circumference}}{\text{Diameter}}$

≈ 3.14





$16 = 4+4+4+4$

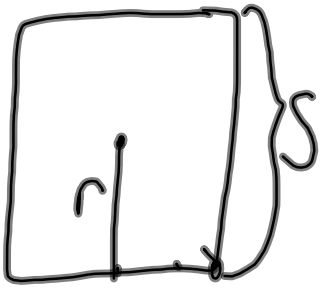


$s+s+s+s = 4s$

Center:

π_{sq}

Circumference $= 4s$



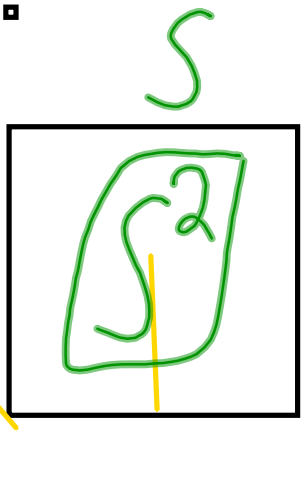
$$\pi_{sq} = \frac{\text{CIRCUMFERENCE}}{\text{DIAMETER}} = 4$$

$$C_{sq} = 2 \cdot \pi_{sq} \cdot r$$

$$4s \stackrel{?}{=} 2 \cdot 4 \cdot \frac{s}{2}$$

$$r = \frac{s}{2}$$

$$r^2 = \frac{s^2}{4}$$



$$A = \pi_{sq} \cdot r^2$$

$$= \left(4\right)\left(\frac{s^2}{4}\right)$$

$$= s^2$$

$C_\Delta = 3 \times 0.95 = 2.85$ in

$\frac{1}{2}(.95)(.86) = 0.4085$ in^2

≈ 0.412 in^2

$A_{S_1} = \pi \cdot r_{S_1}^2$

$\pi_\Delta r_\Delta^2 = (4.91)(.29)^2 \approx$

$A_\Delta = \frac{1}{2} b \cdot h = \pi_\Delta r_\Delta^2$

$\pi_\Delta \approx 4.91$

$\pi_\square = 4$

$\pi_\bigcirc = 3.\ldots$

$\vdots$

$\pi = 3.14?$

$r = 0.29$

$\pi_\Delta = \frac{C_{in} r_\Delta}{2 \cdot r_\Delta} = \frac{2.85}{2(0.29)} \approx 4.91$