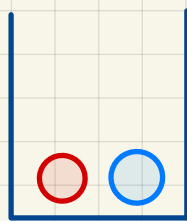


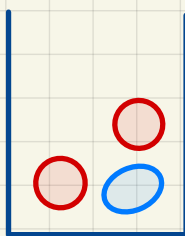
M339G: September 20th, 2024.

Inspiration.

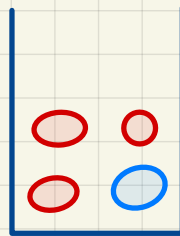
Example. Which Box?



Box #1



Box #2



Box #3

Q:

$TP[\text{Box } i \mid \text{Red}]$

$$= \frac{TP[\text{Box } i \cap \text{Red}]}{TP[\text{Red}]}$$

for all $i=1,2,3$

$$= \frac{\frac{1}{3} \cdot \frac{i}{i+1}}{\frac{1}{3} \left(\frac{1}{2} + \frac{2}{3} + \frac{3}{4} \right)}$$