

$$\text{THEORETICAL PROBABILITY} = \frac{\# \text{ OF WANTED OR FAVOURABLE OUTCOMES}}{\# \text{ OF POSSIBLE OUTCOMES}}$$

EX: 6 sided Dice
I win if I roll a "3" or a "5"

$$\rightarrow = \frac{2 \text{ (ways to win)}}{6 \text{ (possible outcomes)}} = \frac{2}{6}$$

THEORETICAL PROBABILITY

-How likely \textcircled{AN} outcome is

Based on total number of possible outcomes

→ EX: Flipping a coin

HEADS	$\frac{1}{2}$
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TAILS	$\frac{1}{2}$

6 SIDED DICE

POSSIBLE OUTCOMES

1, 2, 3, 4, 5, 6

I ONLY WANT (win)

a "4"

$$\frac{1}{6}$$

How many possible
RESULTS? → 6