## WOULD YOU RAPHA류…



Roll 2 dice...

... win if no match

Justify your reasoning with mathematics.
Tell any
assumptions you have made.

$$
P(\text { event } A)=\frac{n(\text { event } A)}{n(\text { sample space })}
$$

A certain motorcycle license plate consists of 5 digits that are randomly selected. No digit is repeated. What is the probability of getting a license plate consisting of all even digits?

Decide if the problem involves permutations or combinations. Why?

The sample space $S$ consists of permutations of $\qquad$ digits selected from $\qquad$ digits.

$$
n(S)=\square^{P} \square=P=\frac{!}{!}=
$$

Event $A$ consists of permutations of a license plate with $\qquad$ digits.

$$
n(A)=\square^{P} \square=P=\frac{!}{!}=
$$

The probability of getting a license plate with $\qquad$ digits is

$$
P(A)=\frac{n \overline{(A)}}{n(S)}=-=
$$

