

A Short Lesson



Probability



By Debraj paul

NEXT ▶

What are the Chances?



A **probability experiment** is something that can happen in more than one way.



The **outcomes** of an experiment are the ways it can happen.



The **event** is the particular outcome you are looking for.



The Probability of an Event =

$P(\text{Event}) = \frac{\text{the number of ways it can happen}}{\text{the number of possible outcomes}}$



$$P(H+T) = \frac{2}{4} = \frac{1}{2}$$



H H

T T

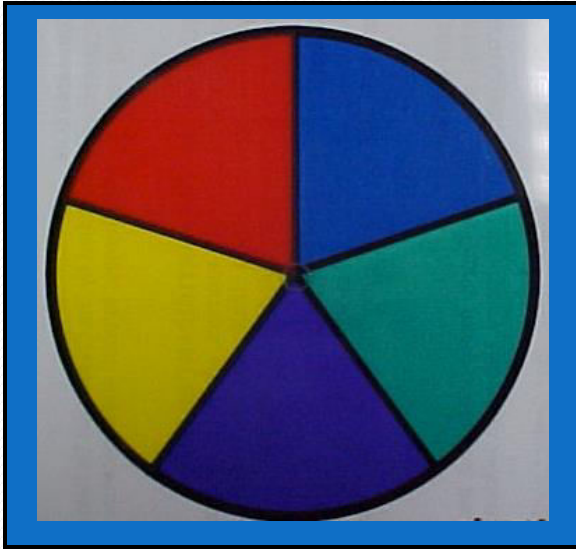
H T

T H

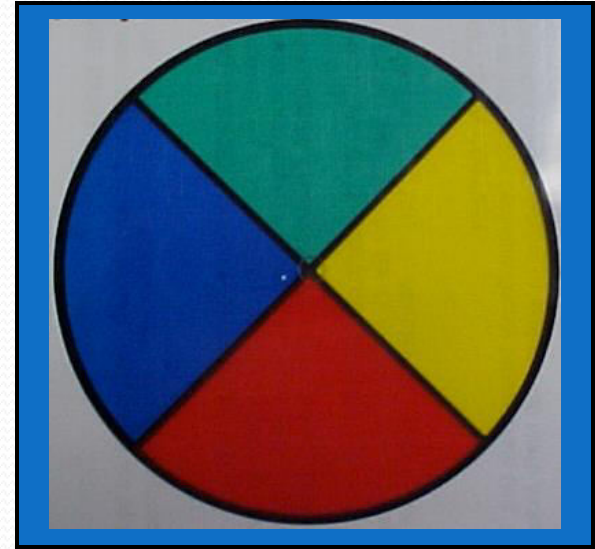


Try these...

a)



b)



P(red)

$$\frac{1}{5}$$

$$\frac{1}{4}$$

P(blue)

$$\frac{2}{5}$$

$$\frac{1}{4}$$

P(yellow or blue)

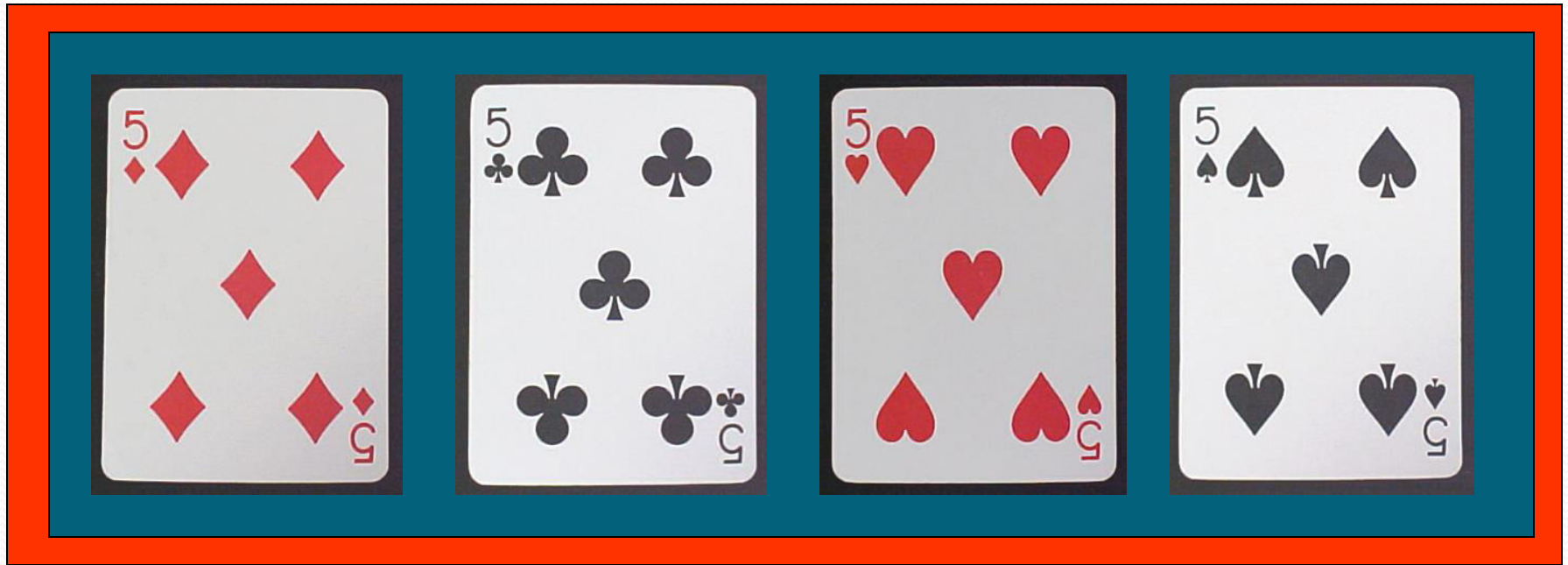
$$\frac{3}{5}$$

$$\frac{1}{2}$$

BACK

NEXT

CARDS



What is the probability
of getting 4 fives?

$P(4 \text{ fives}) =$

$$\frac{4}{13}$$



DICE



What is the probability of getting an even number?

$$P(\text{even}) = \frac{2}{13}$$



COINS



What is the probability of rolling two coins and getting H first and then T?

$$P(H \text{ \& then } T) =$$

$$\frac{1}{4}$$



**What is the probability
that you will get an A
this marking period?**

