

② Several Friends chartered a boat for a day's fishing. They caught a total of 52 fish. The Table below provides information about the type and number of fish caught. Determine the empirical probability that the next fish caught is a Shark.

FISH	Number Caught
Groupers	10
Sharks	12
Flounder	7
Kingfish	23

$$P(\text{shark}) =$$

(Simplify your answer. Type a fraction.)

③ You are dealt one card from a standard 52-card deck. Find the probability of being dealt a club.

The probability of being dealt a club is _____

(Type an integer or a simplified fraction)

③

A dart lands at random on the board shown. Find the probability that the dart will land on the specified color.

What is $P(\text{yellow})$?

$P(\text{yellow}) = \underline{\hspace{2cm}}$

(simplify your answer. Type an integer or a fraction.)

R		R	
R	B	B	B
Y		B	

R = RED

BLUE = B

Y = Yellow

④ The number of college football bowl games has grown in recent years. The table to the right indicates the eight bowl games with the greatest per-team payout in a certain year. One of the bowl games listed in the chart is selected at random.

Bowl Games	Per-Team Payout (millions)
Testino Fiesta	14.5
Fed Ex Orange	14.5
Rose	14.5
Nation Sugar	14.5
Capital One	6.525
SPC Cotton	6
Outback	3.475
Pack Life	
Holiday	2.5

A. What is the probability the per-team payout is greater than \$5 million?

(Type a fraction. Simply Answer)

B. What are the odds against the per-team payout being greater than \$5 million?

(Simply your Answer)

③ When playing bingo, 125 balls are placed in a bin and balls are selected at random. Each ball is marked with a letter and numbers as indicated in the chart below. For example, there are balls marked B1, B2, up to B25; I26, I27, up to I50, AND so on. Assume one bingo ball is selected at random.

B	I	N	G	O
1-25	26-50	51-75	76-100	101-125

What are the odds against it being NO?

(Simplify your answer)

⑥ Suppose the probability of selling a car today is 0.26.
Find the odds against selling a car today.

The odds against selling a car today are ____:

(Simplify your answer)