

THE HORSE RACE -3

This is a game for 4 players, consisting of a bit special **horse race**.

Each team is going to play **4 plays** (4 races). Before starting each race you have to bet on the horse you think is going to win. The race is over when a horse (the winner) reaches the finish line.

You can all bet on the same horse, if all of you think that is the horse to win the race, or on different horses



Winning a bet is not only a question of

good luck: imagine that I am going to draw lots for a

ball between Charles and Mary. To do it, I put three

raffle tickets in a bag, one with the name of Charles and one

with the name of Mary. Now, with my eyes closed, I'm going to take

one of the tickets and the ball will be for the kid with the name written in

the paper. Do you think this is a fair raffle?; Who bets on Mary?; and who

bets on Charles?

Let's go back to the horse race. In order to play, you will have **to toss the two coins you have:**

?? If you get two heads, the horse 'Doublehead' moves forward one square

?? If you get two tails, the horse 'Doubletail' moves forward one square

?? If you get heads and tails, the horse 'Headtail' moves forward one square

☞ Ready!. The **first race** is to start!

Place your bets! ; Which horse do you think is going to win? (Write down the name of the horse and everyone's bets in the **record sheet of bets and results**. In that very sheet you will have to answer the remaining questions made in this activity).

Place the counters in the start line!, toss the two coins! and... The race starts!. In order to watch what is happening, you will have to write down the result of every toss of the coins in the respective record sheet.

Which is the winning horse? Write down its name.

☞ Get ready for the **2nd race**!

Place your bets!. Now more of you will surely guess which is the winning horse.

Let the race start! Don't forget to write down the result of every tossing of the coins.

Which is the winning horse? Write it down in your sheet.

☞ **The 3rd race** is to start!

Don't forget to place your bets in advance and write them down!

Write the name of the winning horse as well.

 **There's still one more race!**

Which will be the winner in this last race?

Place your bets!

Which is the winning horse?

You are going to analyze the result of all the races:

Which of you have guessed more bets?

Do you think it is just a question of good luck, or there is here something similar to the raffle of the ball?



YOU WILL NEED:

2 coins, a board with its 3 'horses', a pencil and the record sheet of bets and results.

RECORD SHEET OF BETS AND RESULTS

HORSE I BET ON IN ...				
NAME	1st RACE	2nd RACE	3rd RACE	4th RACE

RACE	WINNING HORSE
1st	
2nd	
3rd	
4th	

	1st race		2nd race		3rd race		4th race		Total
	Recount	#	Recount	#	Recount	#	Recount	#	
2 tails									
2 heads									
Head and tail									

CONCLUSIONS

- Who has guessed more bets?
- Do you think it was just good luck, or was it something similar to what happened with the raffle of the ball?
- When tossing two coins, which probability (in percentage) would you give to: getting two heads, getting two tails, getting head and tail?