

5 points

roll a 2

1 point

roll a 7

Rules:-each player places their marker on one of the two squares.

- two dice are rolled
- if the total is 2, players with their marker on the "roll a 2" square get 5 points
- if the total is 7, players with their marker on the "roll a 7" square get 1 point

① In the table, write down the different ways you can roll a 2 or a 7:

ways to roll a 2:

1st die	2nd die

ways to roll a 7:

1st die	2nd die

① When we roll 2 dice, how many total possibilities are there for what can happen?

(hint:  and  are different)

② What is the probability that the total is 2?

③ What is the probability that the total is 5?

④ If you play 72 times with your marker on "roll a 2", how many times do you expect to win? How many points would you expect to have?

⑤ If you play 72 times with your marker on "roll a 7", how many times do you expect to win? How many points would you expect to have?

⑥ What is the best strategy for this game?