

### What is your favorite number?

Today we will play with dice.

**First**, we just toss the big dice several times and answer the following questions:

Which of these events never happened, happened for sure, and may have happened or may not have?

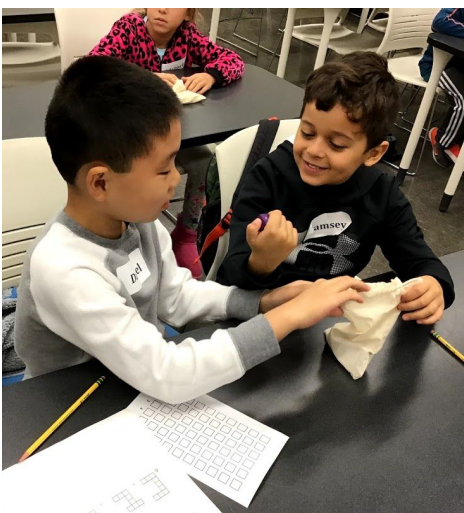
- a) the cube, having fallen, will remain on the edge;
- b) only one of the numbers will appear: 1,2,3,4,5,6;
- c) the number 6 will appear;
- d) the number 4 falls out;
- e) an even number will appear;
- e) an odd number will appear;
- g) a number is drawn that is divisible by 5;
- h) a number that is divisible by 7 is displayed



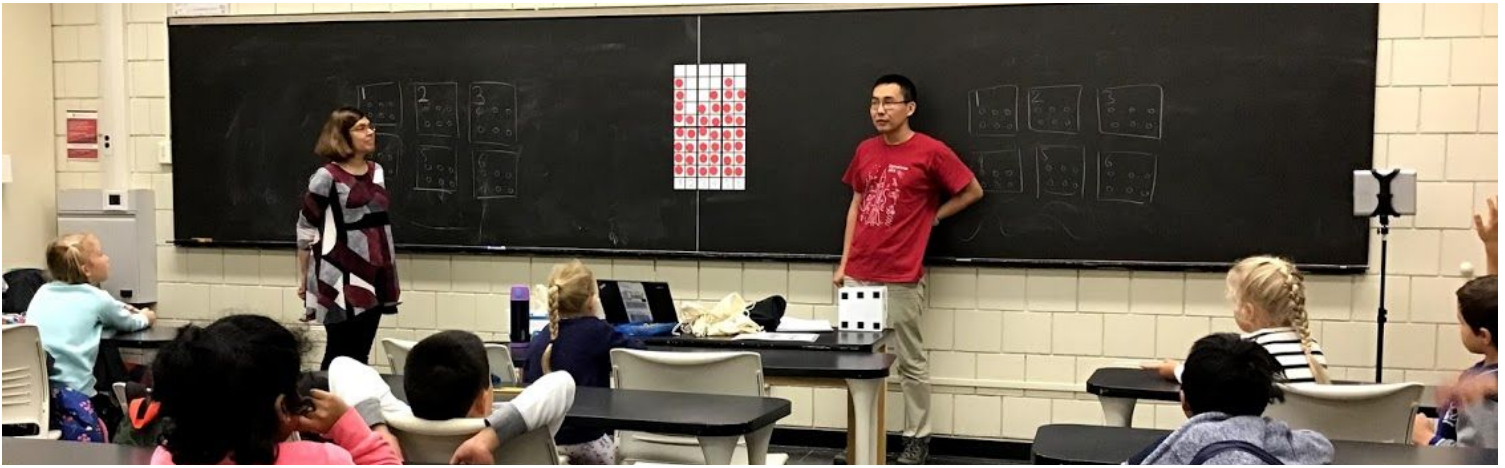
We also discussed what can happen in our life for sure, possibly and never: we certainly blink, we never walk through a brick wall, and it sometimes rains outside.

**Second:** There are 6 sides on the cube. Six numbers. If we toss the dice, which number will be tossed? Do you like any of those 6 numbers more than the other 5?

Let's play with cubes with numbers in the bag! We have a bag with 6 cubes. Each of the cube is labeled with a number, 1 to 6. We take cube from the bag, mark the number we got, then put cube back and repeat until one of the numbers appears 10 times. Anar and Lena show how to do it and then each table gets their bag with 6 cubes and a worksheet. Let's start!



We have our results! What do you think now about the “better” numbers?



Now let us see if we have learned something from this.

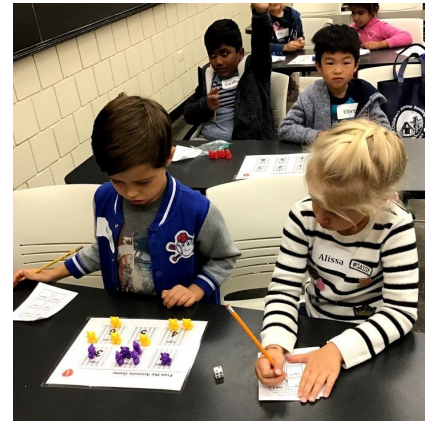
We will play another game. Each person will play to free 6 animals from cages. Each pair of students will share a field and compete against each other:

- Whoever frees his 6 animals from the cages first wins the game!
- Before we start, everyone puts their 6 animals into any combination of the 6 cages on the table. Do not forget to draw where you put them on the special card.
- Then we will take turns throwing dice to decide from which cage we can free our animal.
- Remember:
  - You can free only one animal from the cage with the number that dice throw shows.
  - And you can free your animal from the cage only on your turn!

We will show first how to play: Lena put her red animals like that: one animal each in cages 1, 2, 5 and 6 and two animals in the cage 3. Anar put his blue animals in the cages 4, 5 and 6 - two animals per cage.

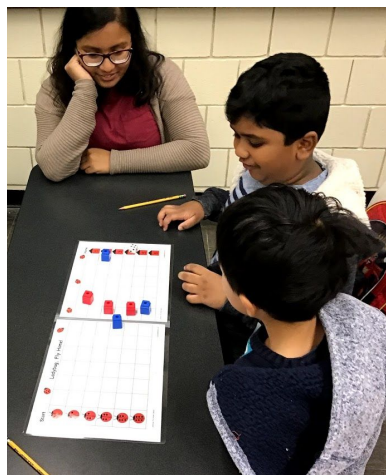


Now we can play. Do you have an idea how to put your animals to have better chance of winning?



Some definitely have the strategy!

**Third:** What about odd and even numbers? Who likes odd numbers? No one? What about even numbers? Let us see which one we can get more often by throwing dice! We will also take sides: one of us takes the odd-numbered ladybugs, the other one the even-numbered ladybugs and we race until one of the bugs reaches the finish. We will take turns throwing dice and moving the numbered bug.



In ten games altogether we have 6 odd ladybugs and 4 even ladybugs winning the race. Does it mean that odd numbers are better than even numbers?

**See you next week!**