Probability Game

 Block Coding Program

**Patterning and Algebra**

**Unit 3 Line Master 2a**

Click the link to access Scratch: Dice Game – Doubles:

<https://scratch.mit.edu/projects/484777128/>



The  starts the game, and the space bar rolls the dice.

Play until you win. Play again.
Compare your results with the class results when
students rolled number cubes.

 Probability Game (cont’d)

 Block Coding Program

**Patterning and Algebra**

**Unit 3 Line Master 2b**

**Examine the Code**

● Click **See Inside**. Look at the code. 
What do you think the different blocks mean?
How do they relate to the probability experiment?

 

 Probability Game (cont’d)

 Block Coding Program

**Patterning and Algebra**

**Unit 3 Line Master 2c**

● Connect the blocks to what happened during the experiment.
For example,
 has Cat facing right (looking from Start to Finish).
 has Cat starting at (–100,50).

|  |  |
| --- | --- |
| Graphical user interface, application  Description automatically generated | has Cat go back to Start if the dice match. |
|  |
| If the dice don’t match, the numbers rolled are added. Then Cat takes that many steps. |
| Graphical user interface, application  Description automatically generated | has the roll tracked each time, and random numbers are chosen from 1 to 10. |
| Graphical user interface, application  Description automatically generated | has the Cat being declared the Winner! When the Cat touches the red Finish Line. |

**Note:**
Cat starts at –100 and ends up at 150.
Thinking about the distance on each side of 0,
100 pixels + 150 pixels = 250 pixels.