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## Statistics Game

Block Coding Program

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.
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## Statistics Game (cont'd) <br> Block Coding Program

## Examine the Code

- Click See Inside. Look at the code.


## (c) See inside

 What do you think the different blocks mean? How do they relate to the statistics experiment?
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## Statistics Game (cont'd)

Block Coding Program

- Connect the blocks to what happened during the experiment. For example,
has Cat facing right (looking from Start to Finish).
go to $x:-100$ y: -50
has Cat starting at $(-100,50)$.

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.

has the roll tracked each time, and random numbers are chosen from 1 to 10.

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.

