

Designing Simulations: Snow Days in November

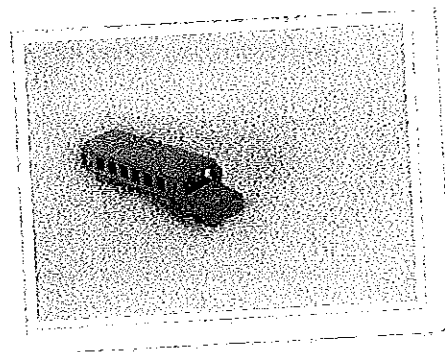
Name:

Date:

Period:

After studying the pattern of snow days in November for the last 5 school years, Petra determined we have a 60% chance of having at least 1 snow day in November.

Which of the simulations below could be used to represent this situation?



Circle all that apply. Be prepared to explain your answers.

- A. A spinner divided in 5 sections with 3 sections assigned to "Snow Day" and 2 sections assigned to "No Snow Day."
- B. A spinner divided into two sections, one assigned to "Snow Day" and the other assigned to "No Snow Day."
- C. Use a random number generator set with 10 number options. Assign 6 numbers to represent "Snow Day" and 4 to represent "No Snow Day."
- D. Use a random number generator set with 100 number options. Assign 60 numbers to represent "Snow Day" and 40 to represent "No Snow Day."
- E. Toss a fair coin. Heads represents "Snow Day". Tails represents "No Snow Day."
- F. A deck of cards assigned numbers 1-30. Odd numbered cards represent "Snow Day". Even number cards represent "No Snow Day."
- G. Roll a 6-sided die. Odd numbers represent "Snow Day". Even numbers represent "No Snow Day."
- H. A deck of cards assigned numbers 1-50. Let 30 cards represent "Snow Day" and the other 20 cards represent "No Snow Day."
- I. A bag of 15 blue marbles and 5 red marbles. Let the blue marbles represent "Snow Day" and the red marbles represent "No Snow Day."

Design another working simulation: