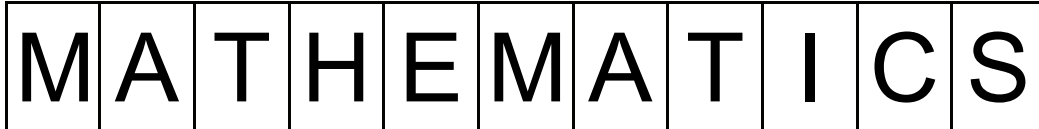


Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Mathematics

Students in Mrs. Smith's class cut apart each of the letters in the word MATHEMATICS and place the squares in a bag. Students take turns pulling one letter square from the bag without looking in the bag.



- What is the probability that the letter a student pulls out will be the letter, M? Explain how you know.
- What is the probability that the letter a student pulls out will be S? Explain.
- What is the probability that the letter a student pulls out will be a vowel? Explain.
- On Friday, his teacher says that if any team can correctly predict which tile they will pull out of the bag of MATHEMATICS squares, the class will not have any homework over the weekend. She asks Samantha's table to predict for the class. The students are nervous because the class is counting on them to say the right letter.
  - Which letter should Samantha's team predict that they will pull from the bag?
  - Explain how you know that the students should predict this letter.