Data/Probability
Word Problems
3rd Grade

Name:_____

1. You have 4 colors on your spinner, orange, blue red and yellow. What are the chances it will land on red?

2. What is the probability of choosing a vowel (count y as a vowel) from a bag of letters containing the alphabet?

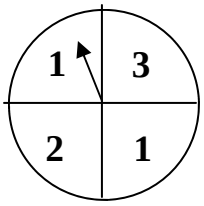
3. If you roll a number cube (dice), what is your chance of getting a 6? Explain.

4. Write 4 statements about a dice using impossible, unlikely, likely, certain.

5. Predict the outcome of tossing a coin 10 times. Toss the coin and see how your prediction matched the actual outcome.

6. If you flipped a coin, what are the chances it will land on heads? Tails? Explain.

7. A dice (number cube) has the numbers 1,2,3,4,5 and 6. What are the chances on landing on an odd number ? Even number? Explain.

8. 

Look at the spinner. What are the chances of taking 1 spin and landing on 1? 2? 3? Explain.

9. If the spinner above was a game and 3 people each got a point when landing on their number would this game be fair ? Explain.

10. For the spinner above, write three statements using the words likely or unlikely.

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Word Problem Answers
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1. 1 out of 4 chances or 1/4

2. 6 out of 26 or 6/26

3. 1 out of 6 or 1/6—explanations will vary.

4. Answers will vary however, should be something like: It is impossible to roll a 7, it is unlikely to roll 4 of the same number in a row, it is likely to roll a 1,2,3 or 4, it is certain to roll a number between 1-6.

5. Students should realize that each time they toss the coin there is still a 1/2 chance of getting heads or tails.

6. 1 out of 2 or 1/2 because the chances of either are equal.

7. 1 out of 2 or 1/2 because the chances are equal as there are 3 odd numbers and 3 even numbers.

8. Landing on 1 would be 1/2 (2/4), landing on 2 would be 1/4, landing on 3 would be 1/4.

9. The person with number 1 has better chances of winning, the game would not be fair.

10. Answers will vary, some examples: It isn't likely to spin twice and land on 1. It is likely to land on 1 when spinning once.