Grade 5

Name _____ Date _____

Master 11.18

Extra Practice 1

Lesson 1: The Likelihood of Events

1. Describe a situation that is:
   a) likely but not certain
   b) unlikely but possible
   c) impossible
   d) certain

2. Describe each outcome.
   Use the words: *impossible*, *unlikely*, *likely*, *certain*.
   a) Someone in your class will win the lottery.
   b) It will rain tomorrow.
   c) You will go skiing tomorrow.
   d) A dog will fly by the classroom window.

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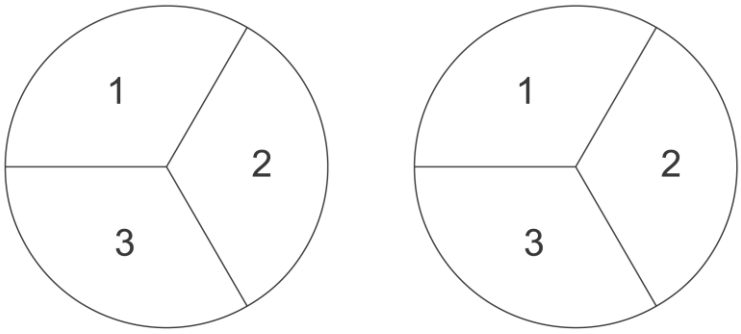
Extra Practice 1

Lesson 2: Calculating Probability

1. Suppose you spin the pointers on these two spinners and add the results.



   a) What are the possible sums you can produce?
   b) What is the probability that you will produce a sum of 6?

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Extra Practice 2

Lesson 3: Probability and Fractions

1. Tara has a collection of small stuffed animals.
   She has 10 bears, 4 dogs, 4 cats, and 2 rabbits.
   Suppose Tara puts all her animals in a pillowcase and picks one without looking.
   Use a fraction to describe the probability that she will pick:
   a) a bear b) a rabbit c) a dog

2. Max has a bag of 25 candies. The probability of choosing a lemon candy is $\frac{1}{5}$. The probability of choosing a mint candy is $\frac{2}{5}$. How many lemon candies are in the bag? How many mint candies are in the bag?

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Extra Practice 2

Lesson 4: Tree Diagrams

1. Omar's class is painting pottery.
   Students can choose to paint a bowl, a plate, or a mug.
   They can use blue, green, yellow, or purple paint.
   a) Use a tree diagram to show all the different pieces of pottery Omar could make.
   b) What fraction of the choices are mugs?
   c) What is the probability that a student will paint a yellow mug?

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Extra Practice 3

Lesson 6: Probability in Games

1. Brajit and Annie have an envelope containing
   6 paper clips: 2 yellow, 2 green, and 2 blue.
   They play a game.
   Each person pulls a paper clip from the envelope without looking.
   If the clips are the same colour, Brajit wins a point.
   If the clips are different colours, Annie wins a point.
   Is this a fair game? Explain your thinking.

2. Design a fair game using coloured paper clips.