

## Extra Practice 1

### Lesson 1: Experimental Probability

1. Each tally chart shows the results of an experiment.  
Use a fraction to describe the experimental probability of each outcome.

a)

Paper Cup Tossing	
on its side	
on its bottom	
on its top	

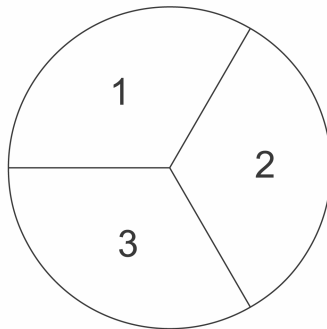
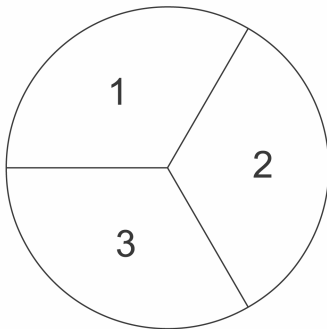
b)

Coin Tossing	
heads	
tails	

2. Roll two number cubes and add.  
Is the sum odd or even?  
Record the results in a table.  
Do the experiment 30 times.  
What is the experimental probability of rolling an odd sum?  
An even sum?

### 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?

**Extra Practice 2****Lesson 4: 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?

**Lesson 5: 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.

**Master 11.19**

**Extra Practice Answers**

**Extra Practice 1 – Master 11.17**

**Lesson 1**

1. a) on its side -  $\frac{14}{25}$   
 on its bottom -  $\frac{2}{25}$   
 on its top -  $\frac{9}{25}$   
 b) heads -  $\frac{18}{30}$   
 tails -  $\frac{12}{30}$

2.

Odd	Even

odd -  $\frac{16}{30}$

even -  $\frac{14}{30}$

**Lesson 2**

1. a) 2, 3, 4, 5, and 6  
 b)  $\frac{1}{9}$

**Extra Practice 2 – Master 11.18**

**Lesson 4**

1. a)  $\frac{10}{20}$  or  $\frac{1}{2}$   
 b)  $\frac{2}{20}$  or  $\frac{1}{10}$   
 c)  $\frac{4}{20}$  or  $\frac{1}{5}$   
 2. There are 5 lemon candies in the bag.  
 There are 10 mint candies in the bag.

**Lesson 5**

1. This is not a fair game. There are 9 different possibilities for pulling 2 paper clips. Only 3 of these have matching colours. Annie's probability of winning is double that of Brajit.  
 2. Place 3 blue paper clips and 3 red paper clips in a bag. Each player draws one paper clip from the envelope. Player A gets a point if both paper clips are blue. Player B gets a point if both paper clips are red. No one scores if the paper clips are different colours.