

## 7TH HOMEFUN: WEEK OF APRIL 18- APRIL 22, 2022

Monday April 18, 2022: Teacher Workday; No Homefun

Tuesday April 19, 2022: OUR 7.8.2 Practice Problems #1-3:

### **Problem 1**

The likelihood that Han makes a free throw in basketball is 60%. The likelihood that he makes a 3-point shot is 0.345. Which event is more likely, Han making a free throw or making a 3-point shot? Explain your reasoning.

### **Problem 2**

Different events have the following likelihoods. Sort them from least to greatest:

- a. 60%
- b. 8 out of 10
- c. 0.37
- d. 20%
- e.  $\frac{5}{6}$

### **Problem 3**

There are 25 prime numbers between 1 and 100. There are 46 prime numbers between 1 and 200. Which situation is more likely? Explain your reasoning.

- a. A computer produces a random number between 1 and 100 that is prime.
- b. A computer produces a random number between 1 and 200 that is prime.

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### Wednesday April 20, 2022: OUR 7.8.3 Practice Problems #1-2:

#### **Problem 1**

List the *sample space* for each chance experiment.

- a. Flipping a coin
- b. Selecting a random season of the year
- c. Selecting a random day of the week

#### **Problem 2**

A computer randomly selects a letter from the alphabet.

- a. How many different outcomes are in the sample space?
- b. What is the probability the computer produces the first letter of your first name?

### Thursday April 21, 2022: OUR 7.8.5-6 Practice Problems Lesson 5, #2 & Lesson 6, #1:

#### **Problem 2**

Andre picks a block out of a bag 60 times and notes that 43 of them were green.

- a. What should Andre estimate for the probability of picking out a green block from this bag?
- b. Mai looks in the bag and sees that there are 6 blocks in the bag. Should Andre change his estimate based on this information? If so, what should the new estimate be? If not, explain your reasoning.

#### **Problem 1**

The weather forecast says there is a 75% chance it will rain later today.

- a. Draw a spinner you could use to simulate this probability.
- b. Describe another way you could simulate this probability.

### Friday April 22, 2022: No Homefun