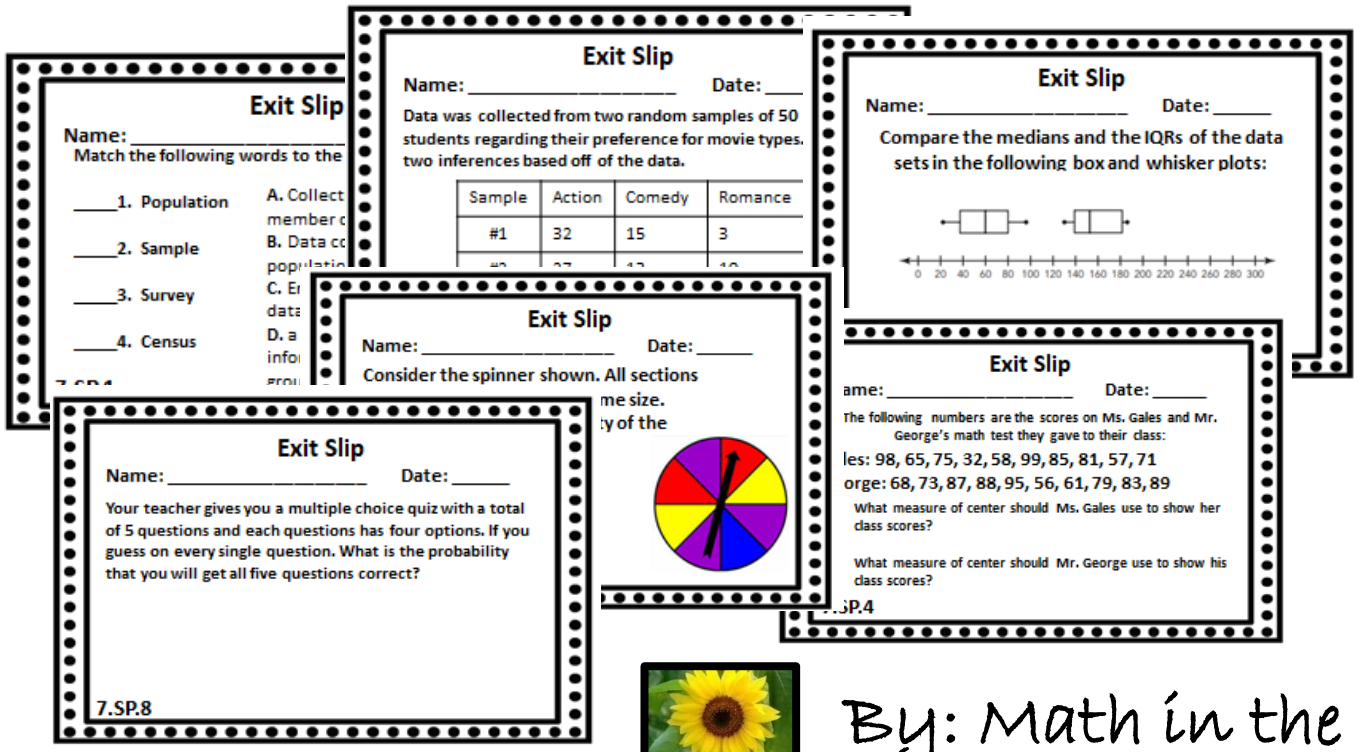
7th Grade Math CCSS
Exit Slips/Exit Tickets
Statistics & Probability



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7.SP.7
7.SP.8

By: Math in the Midwest

Exit Slip

Name: ______________________ Date: ______

Match the following words to the correct definitions.

_____**1. Population**	**A.** Collection of data from every member of a population
_____**2. Sample**	**B.** Data collected from part of a population
_____**3. Survey**	**C.** Entire set of items from which data can be selected
_____**4. Census**	**D.** a method of collecting information about a certain group of people

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7.SP.1

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between:

A. Parameter and Statistic

B. Census and Sample

7.SP.1

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Explain which sampling method is a better representation of the entire population:

Eva and Rachel are interested in the average number of people who visit the ice cream parlor on Main Street in one week. Eva recorded the number of people who visited the ice cream parlor in July and Rachel recorded the number of people who visited the ice cream parlor in December.

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Explain which sampling method is a better representation of the entire population:

Bobby and Isaac want to determine the most popular pizza choice among the 7th and 8th graders at their school. Bobby collects his data by surveying every seventh grader in his class. Isaac surveys ten seventh graders and ten eight graders.

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Name: _____ Date: _____

The softball coach at Ellenwood College is asked to select 3 students to represent the team for the Sports Give Back Social. The coach decides to randomly select the 3 students out of the 19 members on the team.

A. What is the population?

B. What is the sample?

C. Suggest a method of selecting the random sample.

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Name: _____ Date: _____

A principal wants to randomly select 20 students in their building (800 total students) to talk about ways to improve the school.

A. What is the population?

B. What is the sample?

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A principal wants to randomly select 20 students in their building (800 total students) to talk about ways to improve the school.

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Name: _____ Date: _____

Explain in your own words what a random sample is.

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Would the following samples provide an accurate representation of all students in your class if you want to survey a sample of the class about whether they have a pet. Explain your answer.

A. The selection of every third student alphabetically

B. The selection of all the boys in the class.

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Name: ______________________ Date: ______

Determine whether the data collected in each survey represents a census or a sample:

A. Alex surveys each of the teachers at his school and concludes that 85% of them bring their own lunch.

B. Megan surveys every seventh grader in her class and determines that 45% of 7^{th} graders favorite pizza is pepperoni.

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Name: _____ Date: _____

Determine whether each survey result is a parameter or a statistic.

A. **The state police set up a speed trap on Highway 85 to see how many drivers speed. They conclude that 7 out of every 10 drivers were speeding.**

B. **According to an online pool 63% of all U.S. citizens support the president.**

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Determine if each sample is random or not random. Explain your reasoning.

A. Ali chooses the first 5 classmates that raise their hand to participate in her survey.

B. Ali writes down all her classmates names on a piece of paper, puts them in a jar and draw five names with her eyes closed.

7.SP.2

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Name: _____ Date: _____

Write down your own example of a sample that is:

Random:

Not Random:

7.SP.2

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Patti has a container of 20 shapes that are all different sizes and she wants to choose 4 at random. She will reach in a pull out 4 of the shapes without looking. Her teacher said this would not produce a random sample… why not?

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Name: _____ Date: _____

Data was collected from two random samples of 50 students regarding their preference for movie types. Make two inferences based off of the data.

Sample	Action	Comedy	Romance
#1	32	15	3
#2	27	13	10

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Name: _____ Date: _____

Data was collected about the total number of vehicle accidents in a major city each year.
Year 1: 315 accidents
Year 2: 335 accidents
Year 3: 375 accidents
Year 4: ?
What would you predict would be the number of accidents in year 4?

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Name: _____ Date: _____

The table shows the results from 2 random samples of 100 students regarding their favorite ice cream. If you were to randomly select 10 students, based on the data, what number would you expect to respond that their favorite ice cream is chocolate?

Sample	Vanilla	Chocolate	Strawberry
#1	27	34	39
#2	25	42	33

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In a sample of people in the town hall, 20 of 25 favorited building a new pool for the town. If 4,000 people vote in the next local election, how many are likely to vote in favor of the new pool?

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Name: _____ Date: _____

Data was collected about the total number of residents in a city each year
Year 1: 2,345 residents
Year 2: 3,870 residents
Year 3: 4,398 residents
Year 4: ?
What would you predict would be the number of residents in year 4?

7.SP.2

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Name: _____ Date: _____

Explain why the following statement is incorrect:
In a sample of people in the school district, 6 out of 15 favorited a new high school being built. If 3,000 people vote in the next local election approximately 1,800 people would vote in favor of the new high school.

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Name: _____ Date: _____

Explain in your own words how to find the mean absolute deviation (MAD) of a data set.

7.SP.3

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7.SP.3

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Name: _____ Date: _____

Explain in your own words how comparing the measures of center and variation for two population sets is helpful.

7.SP.3

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7.SP.3

Exit Slip

Name: _____ Date: _____

True or False

_____ 1. The mean is not affected by extreme minimum and maximum values.

_____ 2. The mean absolute deviation shows how much spread there is between two data sets

7.SP.3

Exit Slip

Name: _____ Date: _____

True or False

_____ 1. The mean is not affected by extreme minimum and maximum values.

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Name: _____ Date: _____

True or False

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True or False

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7.SP.3

Exit Slip

Name: _____ Date: _____

Explain how to compare the mean and the spread of data for two populations from a dot pot.

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain how to compare the mean and the spread of data for two populations from a dot pot.

7.SP.3

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Name: _____ Date: _____

Explain how to compare the mean and the spread of data for two populations from a dot pot.

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the means and the mean absolute deviation for the two data sets:

Set 1: 2, 4, 8, 10, 10

Set 2: 4, 8, 10, 10, 40

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the means and the mean absolute deviation for the two data sets:

Set 1: 2, 4, 8, 10, 10

Set 2: 4, 8, 10, 10, 40

7.SP.3

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Set 1: 2, 4, 8, 10, 10

Set 2: 4, 8, 10, 10, 40

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Name: _____ Date: _____

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Set 1: 2, 4, 8, 10, 10

Set 2: 4, 8, 10, 10, 40

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the means and the mean absolute deviation for the two data sets:

Set 1: 24, 18, 32, 30

Set 2: 58, 50, 63, 12

7.SP.3

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7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in each problem.

Set 1: 16, 97, 52, 31

Set 2: 18, 49, 91, 20

7.SP.3

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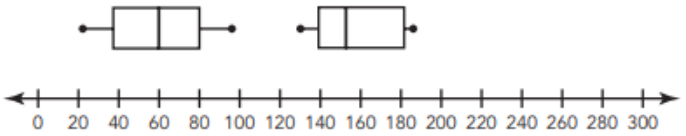
Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in the following box and whisker plots:

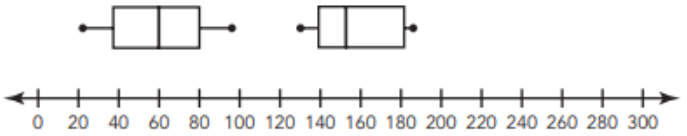


7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in the following box and whisker plots:

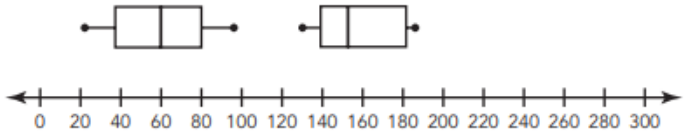


7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in the following box and whisker plots:



7.SP.3

Exit Slip

Name: _____ Date: _____

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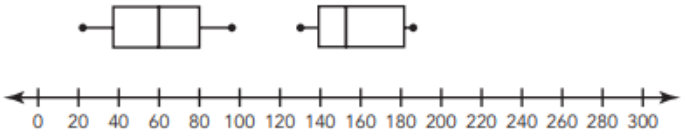
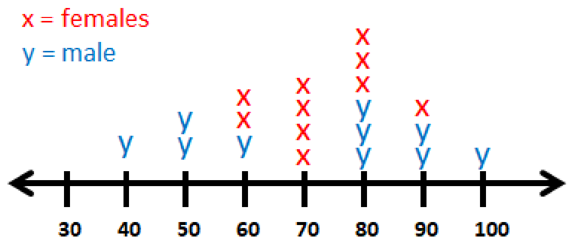


7.SP.3

Exit Slip

Name: ______________________ **Date:** _______

Compare the means and the mean absolute deviation for the follow dot pot below. The dot plot represents test scores in Mr.Lou's science class.



7.SP.3

Exit Slip

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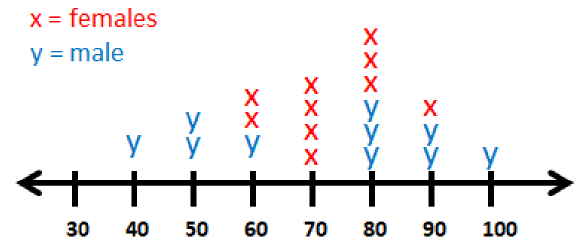

7.SP.3

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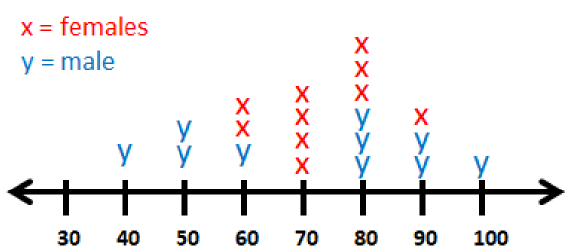

7.SP.3

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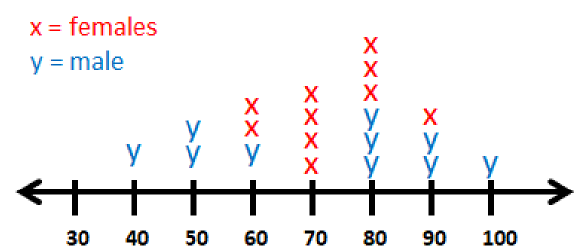
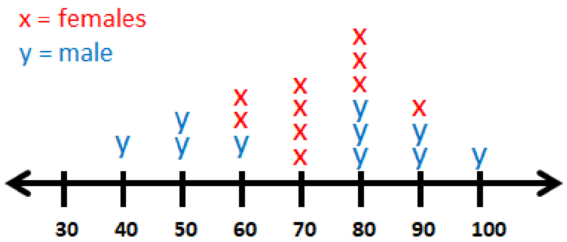


7.SP.3

Exit Slip

Name: ______________________ Date: ______

The dot plot represents test scores in Mr.Lou's science class. What observations can you make about the spread of the two data sets?



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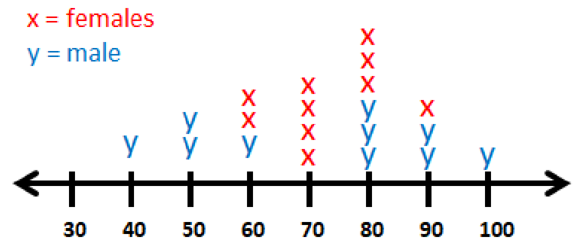

7.SP.3

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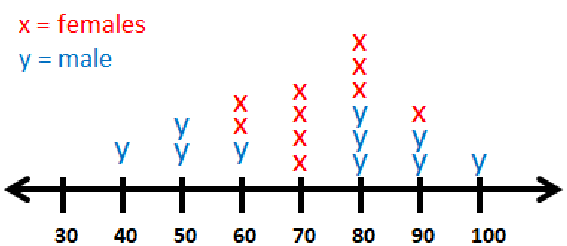

7.SP.3

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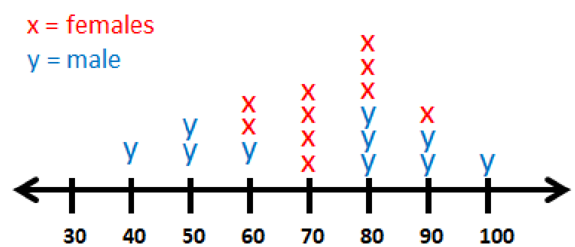

7.SP.3

Exit Slip

Name: _____ Date: _____

True or False

_____ 1. Measures of center provide a summary about the data.

_____ 2. Variation provides information about how much the data varies within the sample.

7.SP.4

Exit Slip

Name: _____ Date: _____

True or False

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True or False

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_____ 2. Variation provides information about how much the data varies within the sample.

7.SP.4

Exit Slip

Name: _____ Date: _____

Find the measures of center and variability for the data set below:

7, 12, 19, 35, 35, 42, 81

Mean:
Median:
Mode:

Lower Quartile:
Upper Quartile:
Inner Quartile Range:
Range:

7.SP.4

Exit Slip

Name: _____ Date: _____

Find the measures of center and variability for the data set below:

7, 12, 19, 35, 35, 42, 81

Mean:
Median:
Mode:

Lower Quartile:
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Inner Quartile Range:
Range:

7.SP.4

Exit Slip

Name: _____ Date: _____

Find the measures of center and variability for the data set below:

7, 12, 19, 35, 35, 42, 81

Mean:
Median:
Mode:

Lower Quartile:
Upper Quartile:
Inner Quartile Range:
Range:

7.SP.4

Exit Slip

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7, 12, 19, 35, 35, 42, 81

Mean:
Median:
Mode:

Lower Quartile:
Upper Quartile:
Inner Quartile Range:
Range:

7.SP.4

Exit Slip

Name: _____ Date: _____

A cell phone company was surveying the ages of shoppers that were buying new cell phones on Friday and Saturday. Compare the data from the two days and draw two observations.

Friday: 13, 17, 29, 35, 21, 32, 18, 22, 49, 30
Saturday: 16, 18, 16, 32, 36, 25, 28, 12, 13, 15, 43

7.SP.4

Exit Slip

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7.SP.4

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7.SP.4

Exit Slip

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A cell phone company was surveying the ages of shoppers that were buying new cell phones on Friday and Saturday. According to their data which day is more likely to have a teenager buy a phone.

Friday: 13, 17, 29, 35, 21, 32, 18, 22, 49, 30
Saturday: 16, 18, 16, 32, 36, 25, 28, 12, 13, 15, 43

7.SP.4

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7.SP.4

Exit Slip

Name: _____ Date: _____

Jack's BBQ and Carlos Cantina restaurants say they have the shortest wait times in town. The following shows the wait times, in minutes, of different customers without reservations

Jack's: 7, 15, 9, 12, 4, 8, 11, 23

Carlos: 18, 21, 14, 6, 5, 12, 10, 9

A. **Calculate the mean wait time for both restaurants.**

B. **Which restaurant seems to have faster service?**

7.SP.4

Exit Slip

Name: _____ Date: _____

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Complete a dot plot of waiting times for both restaurants. Make sure to make a key to distinguish the difference between the restaurants.

7.SP.4

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Which measure of center would you use if:

A. **You are Jack:**

B. **You are Carlos:**

7.SP.4

Exit Slip

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7.SP.4

Exit Slip

Name: _____ Date: _____

The following numbers are the scores on Ms. Gales and Mr. George's math test they gave to their class:

Gales: 98, 65, 75, 32, 58, 99, 85, 81, 57, 71

George: 68, 73, 87, 88, 95, 56, 61, 79, 83, 89

A. What is the range of scores in both classes?

B. Whose class has the highest range of scores?

7.SP.4

Exit Slip

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A. What is the mean score of both classes?

B. What is the median score of both classes?

7.SP.4

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A. **What measure of center should Ms. Gales use to show her class scores?**

B. **What measure of center should Mr. George use to show his class scores?**

7.SP.4

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B. **What measure of center should Mr. George use to show his class scores?**

7.SP.4

Exit Slip

Name: _____ Date: _____

True or False

_____ 1. The probability of a chance event is a number between 0 and 1.

_____ 2. Smaller numbers indicate greater likelihood.

_____ 3. A probability near 0 indicates a likely event.

_____4. A probability around ½ indicates an event that is either unlikely nor likely.

7.SP.5

Exit Slip

Name: _____ Date: _____

True or False

_____ 1. The probability of a chance event is a number between 0 and 1.

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7.SP.5

Exit Slip

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7.SP.5

Exit Slip

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_____4. A probability around ½ indicates an event that is either unlikely nor likely.

7.SP.5

Exit Slip

Name: _____ **Date:** _____

Match the following words to the correct definition:

_____ **1. Experiment**

_____ **2. Probability**

_____ **3. Outcome**

_____ **4. Event**

_____ **5. Sample Space**

A. One or a group of possible outcomes for a given situation
B. A list of possible outcomes of an experiment
C. Situation involving chance that leads to results
D. Measure of the likelihood that an event will occur
E. Result of an experiment

7.SP.5

Exit Slip

Name: _____ **Date:** _____

Match the following words to the correct definition:

_____ **1. Experiment**

_____ **2. Probability**

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B. A list of possible outcomes of an experiment
C. Situation involving chance that leads to results
D. Measure of the likelihood that an event will occur
E. Result of an experiment

7.SP.5

Exit Slip

Name: _____ **Date:** _____

Fill in the blanks

_____ is a measure of the likelihood that an _____ will occur. To calculate the probability of an event or P(event), determine the _____ of the number of times the event _____ to the total number of _____.

7.SP.5

Exit Slip

Name: _____ **Date:** _____

Fill in the blanks

_____ is a measure of the likelihood that an _____ will occur. To calculate the probability of an event or P(event), determine the _____ of the number of times the event _____ to the total number of _____.

7.SP.5

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7.SP.5

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7.SP.5

Exit Slip

Name: _____ Date: _____

Write the formula to determine the probability of an event.

7.SP.5

Exit Slip

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Write the formula to determine the probability of an event.

7.SP.5

Exit Slip

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7.SP.5

Exit Slip

Name: _____ Date: _____

Write the formula to determine the probability of an event.

7.SP.5

Exit Slip

Name: _____ Date: _____

A six sided number cube has one number, from 1 through 6, on each cube. Determine the probability of the following:

P(4)

P(even #)

P(1 or 2)

7.SP.5

Exit Slip

Name: _____ Date: _____

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7.SP.5

Exit Slip

Name: _____ Date: _____

A six sided number cube has one number, from 1 through 6, on each cube. Determine the probability of the following:

P(greater than 3)

P(less than 5)

7.SP.5

Exit Slip

Name: _____ Date: _____

A six sided number cube has one number, from 1 through 6, on each cube. Determine the probability of the following:

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7.SP.5

Exit Slip

Name: _____ Date: _____

A six sided number cube has one number, from 1 through 6, on each cube. Determine the probability of the following:

P(greater than 3)

P(less than 5)

7.SP.5

Exit Slip

Name: _____ Date: _____

A six sided number cube has one number, from 1 through 6, on each cube. Determine the probability of the following:

P(greater than 3)

P(less than 5)

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size.

1. How many possible outcomes are there in the experiment?

2. List the sample space for the experiment.

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size.

1. How many possible outcomes are there in the experiment?

2. List the sample space for the experiment.

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size.

1. How many possible outcomes are there in the experiment?

2. List the sample space for the experiment.

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size.

1. How many possible outcomes are there in the experiment?

2. List the sample space for the experiment.

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size. Determine the probability of the following:

1. P(purple)

2. P(not yellow)

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size. Determine the probability of the following:

1. P(purple)

2. P(not yellow)

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size. Determine the probability of the following:

1. P(purple)

2. P(not yellow)

7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size. Determine the probability of the following:

1. P(purple)

2. P(not yellow)

7.SP.5

Exit Slip

Name: _____ Date: _____

1. What is the greatest possible probability in any experiment? Explain your answer.

2. What is the least possible probability in any experiment? Explain your answer.

7.SP.5

Exit Slip

Name: _____ Date: _____

1. What is the greatest possible probability in any experiment? Explain your answer.

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7.SP.5

Exit Slip

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7.SP.5

Exit Slip

Name: _____ Date: _____

1. What is the greatest possible probability in any experiment? Explain your answer.

2. What is the least possible probability in any experiment? Explain your answer.

7.SP.5

Exit Slip

Name: _____ Date: _____

Determine if the following event is certain to occur, just as likely to occur as not to occur, or impossible to occur. Then write the probability.

A coin is flipped and coin lands tails up.

7.SP.5

Exit Slip

Name: _____ Date: _____

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7.SP.5

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7.SP.5

Exit Slip

Name: _____ Date: _____

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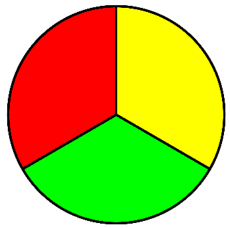
A coin is flipped and coin lands tails up.

7.SP.5

Exit Slip

Name: ______________________ Date: ______

If I spin the spinner below 20 times, I can expect it to land on yellow about 15 times. Explain why this statement is incorrect.

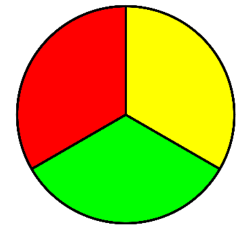


7.SP.6

Exit Slip

Name: ______________________ Date: ______

If I spin the spinner below 20 times, I can expect it to land on yellow about 15 times. Explain why this statement is incorrect.



7.SP.6

Exit Slip

Name: ______________________ Date: ______

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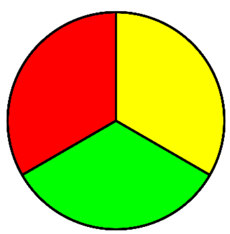

7.SP.6

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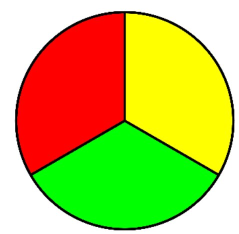
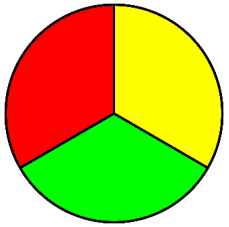


7.SP.6

Exit Slip

Name: _____ Date: _____

Jackson spins the spinner below 200 times. How many times is expected for him to land on red?



7.SP.6

Exit Slip

Name: _____ Date: _____

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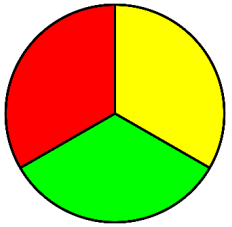

7.SP.6

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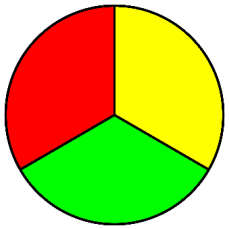

7.SP.6

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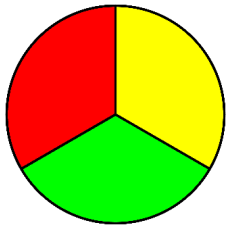
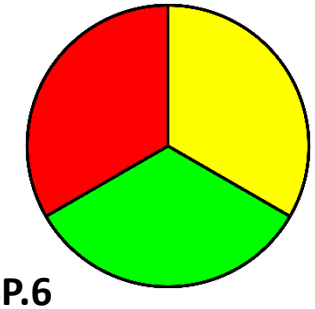


7.SP.6

Exit Slip

Name: _____ Date: _____

If you spin the spinner 50 times. What is the theoretical probability you will land on red?

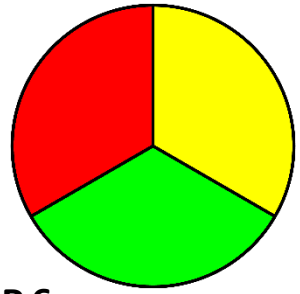


7.SP.6

Exit Slip

Name: _____ Date: _____

If you spin the spinner 50 times. What is the theoretical probability you will land on red?

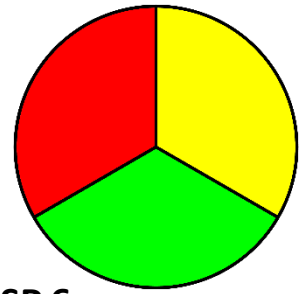


7.SP.6

Exit Slip

Name: _____ Date: _____

If you spin the spinner 50 times. What is the theoretical probability you will land on red?



7.SP.6

Exit Slip

Name: _____ Date: _____

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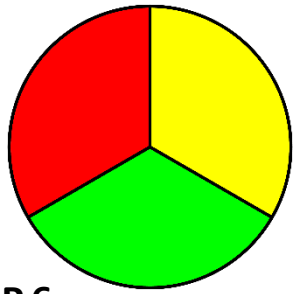

7.SP.6

Exit Slip

Name: _____ Date: _____

George has a bag of 11 red marbles, 14 blue marbles, and 5 yellow marbles. How many red marble draws is expected if 1.000 draws are conducted and each time the marbles are put back into the bag.

7.SP.6

Exit Slip

Name: _____ Date: _____

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7.SP.6

Exit Slip

Name: _____ Date: _____

Explain the difference between experimental probability and theoretical probability.

7.SP.6

Exit Slip

Name: _____ Date: _____

Explain the difference between experimental probability and theoretical probability.

7.SP.6

Exit Slip

Name: _____ Date: _____

Explain the difference between experimental probability and theoretical probability.

7.SP.6

Exit Slip

Name: _____ Date: _____

Explain the difference between experimental probability and theoretical probability.

7.SP.6

Exit Slip

Name: _____ Date: _____

Will the experimental probability and the theoretical probability always be close to the same thing? Explain your answer.

7.SP.6

Exit Slip

Name: _____ Date: _____

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7.SP.6

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Name: _____ Date: _____

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7.SP.6

Exit Slip

Name: _____ Date: _____

Will the experimental probability and the theoretical probability always be close to the same thing? Explain your answer.

7.SP.6

Exit Slip

Name: _____ Date: _____

In Mr. Smith's 7th Hour class there are 16 boys and 7 girls. What is the probability of randomly selecting a boy?

7.SP.6

Exit Slip

Name: _____ Date: _____

In Mr. Smith's 7th Hour class there are 16 boys and 7 girls. What is the probability of randomly selecting a boy?

7.SP.6

Exit Slip

Name: _____ Date: _____

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7.SP.6

Exit Slip

Name: _____ Date: _____

7.SP.6

Exit Slip

Name: _____ Date: _____

The numbers 1 – 12 are written on separate cards and placed in a bag.

A. What is the probability of drawing a number that is divisible by 5?

B. Approximately how many times would a number that is divisible by 5 be drawn if you did 500 draws putting the card back each time?

7.SP.6

Exit Slip

Name: _____ Date: _____

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7.SP.6

Exit Slip

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7.SP.6

Exit Slip

Name: _____ Date: _____

A regular six-sided number cube was rolled 30 times.

A. What is the theoretical probability of rolling a number less than 4?

B. What is the theoretical probability of rolling a 2?

C. What is the theoretical probability of rolling an odd number?

7.SP.6

Exit Slip

Name: _____ Date: _____

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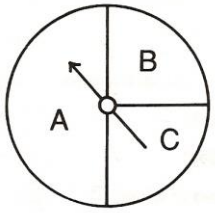
7.SP.6

Exit Slip

Name: _____ **Date:** _____

Determine if each scenario can be calculated experimentally, theoretically, or both. Explain your reasoning.



A. The probability of the spinner landing on the letter A

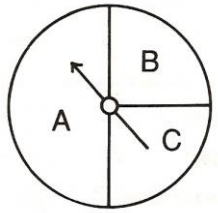
B. The probability a particular medicine will cure a disease.

7.SP.6

Exit Slip

Name: _____ **Date:** _____

Determine if each scenario can be calculated experimentally, theoretically, or both. Explain your reasoning.



A. The probability of the spinner landing on the letter A

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7.SP.6

Exit Slip

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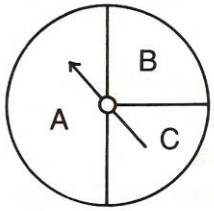

A. The probability of the spinner landing on the letter A

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7.SP.6

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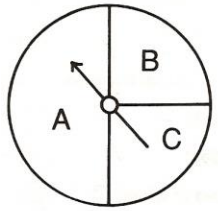

A. The probability of the spinner landing on the letter A

B. The probability a particular medicine will cure a disease.

7.SP.6

Exit Slip

Name: _____ Date: _____

Fill in the blanks for each sentence:

1. **When all probabilities in a probability model are the same, it is called a _____.**
2. **When all probabilities in a probability model are not the same, it is called a _____.**
3. **A _____ is a list of each possible outcome along with its probability.**

7.SP.7

Exit Slip

Name: _____ Date: _____

Fill in the blanks for each sentence:

1. **When all probabilities in a probability model are the same, it is called a _____.**
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7.SP.7

Exit Slip

Name: _____ Date: _____

Fill in the blanks for each sentence:

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7.SP.7

Exit Slip

Name: _____ Date: _____

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7.SP.7

Exit Slip

Name: _____ **Date:** _____

Ashley flipped a quarter 80 times and got 65% heads and 35% tails. What will happen to these percent's as Ashley continued to flip the quarter?

7.SP.7

Exit Slip

Name: _____ **Date:** _____

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7.SP.7

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7.SP.7

Exit Slip

Name: _____ **Date:** _____

You roll two standard dice. What is the probability that both dice will show the number 1?

7.SP.7

Exit Slip

Name: _____ **Date:** _____

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7.SP.7

Exit Slip

Name: _____ **Date:** _____

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7.SP.7

Exit Slip

Name: _____ **Date:** _____

You roll two standard dice. What is the probability that both dice will show the number 1?

7.SP.7

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between a uniform probability model and a non-uniform probability model.

7.SP.7

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between a uniform probability model and a non-uniform probability model.

7.SP.7

Exit Slip

Name: _____ Date: _____

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7.SP.7

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between a uniform probability model and a non-uniform probability model.

7.SP.7

Exit Slip

Name: _____ Date: _____

Explain why the sum of the probabilities in a probability model is always 1.

7.SP.7

Exit Slip

Name: _____ Date: _____

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7.SP.7

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7.SP.7

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Name: _____ Date: _____

Explain why the sum of the probabilities in a probability model is always 1.

7.SP.7

Exit Slip

Name: _____ Date: _____

Max was asked to spin a penny 100 times and record how many times a heads came up and how many times a tail came up. Before doing the experiment, Max predicted the probability of heads and tails to both be 0.5. When the experiment was complete Max counted 82 tails and 18 heads.

A. What is the estimated probability of spinning a penny and landing on tails?

B. According to Max's experimental results, predict how many tails Max would get if he were to spin the penny 400 times.

7.SP.7

Exit Slip

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Were Max's results consistent with his predictions?

7.SP.7

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Were Max's results consistent with his predictions?

7.SP.7

Exit Slip

Name: _____ Date: _____

Alice has a box of 70 balloons for her birthday party. 40 of the balloons are yellow, 20 pink, and 10 blue. What is the probability that a randomly selected balloon will be pink?

7.SP.7

Exit Slip

Name: _____ Date: _____

Alice has a box of 70 balloons for her birthday party. 40 of the balloons are yellow, 20 pink, and 10 blue. What is the probability that a randomly selected balloon will be pink?

7.SP.7

Exit Slip

Name: _____ Date: _____

Alice has a box of 70 balloons for her birthday party. 40 of the balloons are yellow, 20 pink, and 10 blue. What is the probability that a randomly selected balloon will be pink?

7.SP.7

Exit Slip

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Alice has a box of 70 balloons for her birthday party. 40 of the balloons are yellow, 20 pink, and 10 blue. What is the probability that a randomly selected balloon will be pink?

7.SP.7

Exit Slip

Name: _____ **Date:** _____

The following movies are coming out this weekend with the expected amount of people to attend them.

1. **Create a probability model**

2. **Randomly choosing a person going to see Transformers.**

Movie	# of people
Transformers	2400
Avengers	5500
Spiderman	3800

7.SP.7

Exit Slip

Name: _____ **Date:** _____

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Movie	# of people
Transformers	2400
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7.SP.7

Exit Slip

Name: _____ Date: _____

Mr. Young got his class list for the year which he broke down into gender shown in the table below:

Gender	#
Male	14
Female	11

If a student is selected a random find the probability that:

1. **Erica (a student in the class will be selected)**
2. **A female will be selected**

7.SP.7

Exit Slip

Name: _____ Date: _____

Mr. Young got his class list for the year which he broke down into gender shown in the table below:

Gender	#
Male	14
Female	11

If a student is selected a random find the probability that:

1. **Erica (a student in the class will be selected)**
2. **A female will be selected**

7.SP.7

Exit Slip

Name: _____ Date: _____

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7.SP.7

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7.SP.7

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between independent and dependent events.

7.SP.8

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between independent and dependent events.

7.SP.8

Exit Slip

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7.SP.8

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7.SP.8

Exit Slip

Name: _____ Date: _____

Mrs. Carp's class has 11 boys and 17 girls. What is the probability that she will randomly choose a girl first and then a boy?

7.SP.8

Exit Slip

Name: _____ Date: _____

Mrs. Carp's class has 11 boys and 17 girls. What is the probability that she will randomly choose a girl first and then a boy?

7.SP.8

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Exit Slip

Name: _____ **Date:** _____

Your teacher gives you a multiple choice quiz with a total of 5 questions and each questions has four options. If you guess on every single question. What is the probability that you will get all five questions correct?

7.SP.8

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7.SP.8

Exit Slip

Name: _____ **Date:** _____

There are 3 marbles (orange, blue, and red). If you choose one marble out of the bag and a flip a coin how many total outcomes are possible?

7.SP.8

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7.SP.8

Exit Slip

Name: _____ Date: _____

Ali is pulling marbles out of a bag. Inside the bag there are 12 green, 11 yellow, 5 blue, and 2 red marbles.

A. How many marbles are in the bag?

B. What is the probability Ali pulls a green or red marble?

C. What is the probability that Ali pulls a green marble and then red marble and the marbles are not put back?

7.SP.8

Exit Slip

Name: _____ Date: _____

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7.SP.8

Exit Slip

Name: _____ **Date:** _____

Explain how to determine the probability of a compound event. Include both types of compound events.

7.SP.8

Exit Slip

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7.SP.8

Exit Slip

Name: _____ **Date:** _____

Explain how to determine the probability of a compound event. Include both types of compound events.

7.SP.8

Exit Slip

Name: _____ **Date:** _____

You are playing a board game with friends and you must roll two regular six sided die every turn. If you roll doubles you roll again. However, if you roll doubles three times in a row you lose your turn. What is the probability of rolling three doubles in a row?

7.SP.8

Exit Slip

Name: _____ **Date:** _____

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7.SP.8

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between the words and and or.

7.SP.8

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Name: _____ Date: _____

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7.SP.8

Exit Slip

Name: _____ Date: _____

Jack chose four cards randomly from a deck. What is the probability of getting a Jack, Queen, King and an Ace without replacement?

7.SP.8

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7.SP.8

Exit Slip

Name: _____ Date: _____

You are going on a picnic and take with you the following:

2 types of bread
3 types of meat
3 types of cheese

How many different sandwich combinations are possible?

7.SP.8

Exit Slip

Name: _____ Date: _____

You are going on a picnic and take with you the following:

2 types of bread
3 types of meat
3 types of cheese

How many different sandwich combinations are possible?

7.SP.8

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Answer Keys

Exit Slip

Name: _____ **Date:** _____

Match the following words to the correct definitions.

C **1. Population**

B **2. Sample**

D **3. Survey**

A **4. Census**

A. Collection of data from every member of a population

B. Data collected from part of a population

C. Entire set of items from which data can be selected

D. a method of collecting information about a certain group of people

7.SP.1

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7.SP.1

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between:

A. Parameter and Statistic

Answers will vary

B. Census and Sample

7.SP.1

Exit Slip

Name: _____ Date: _____

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Name: _____ Date: _____

Explain in your own words the difference between:

A. Parameter and Statistic

Answers will vary

B. Census and Sample

7.SP.1

Exit Slip

Name: _____ **Date:** _____

Explain which sampling method is a better representation of the entire population:

Eva and Rachel are interested in the average number of people who visit the ice cream parlor on Main Street in one week. Eva recorded the number of people who visited the ice cream parlor in July and Rachel recorded the number of people who visited the ice cream parlor in December.

Eva because more people will visit the ice cream parlor in July because of the weather

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Bobby and Isaac want to determine the most popular pizza choice among the 7th and 8th graders at their school. Bobby collects his data by surveying every seventh grader in his class. Isaac surveys ten seventh graders and ten eight graders.

Isaac because he surveyed 7th and 8th graders not just 7th graders.

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7.SP.1

Exit Slip

Name: _____ Date: _____

The softball coach at Ellenwood College is asked to select 3 students to represent the team for the Sports Give Back Social. The coach decides to randomly select the 3 students out of the 19 members on the team.

A. What is the population?

Ellenwood College Softball Team

B. What is the sample?

3 students randomly selected

C. Suggest a method of selecting the random sample.

Answers will vary

7.SP.1

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Answers will vary

7.SP.1

Exit Slip

Name: _____ **Date:** _____

A principal wants to randomly select 20 students in their building (800 total students) to talk about ways to improve the school.

A. What is the population?

All 800 students at the school

B. What is the sample?

20 randomly selected students

7.SP.1

Exit Slip

Name: _____ **Date:** _____

A principal wants to randomly select 20 students in their building (800 total students) to talk about ways to improve the school.

A. What is the population?

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B. What is the sample?

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7.SP.1

Exit Slip

Name: _____ **Date:** _____

A principal wants to randomly select 20 students in their building (800 total students) to talk about ways to improve the school.

A. What is the population?

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B. What is the sample?

7.SP.1 20 randomly selected students

Exit Slip

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A. What is the population?

All 800 students at the school

B. What is the sample?

20 randomly selected students

7.SP.1

Exit Slip

Name: _____ **Date:** _____

Explain in your own words what a random sample is.

Answers will vary

7.SP.1

Exit Slip

Name: _____ **Date:** _____

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Answers will vary

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7.SP.1

Exit Slip

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Answers will vary

7.SP.1

Exit Slip

Name: _____ Date: _____

Would the following samples provide an accurate representation of all students in your class if you want to survey a sample of the class about whether they have a pet. Explain your answer.

A. The selection of every third student alphabetically
More than likely represent all students in the class

B. The selection of all the boys in the class.
Does not represent all students because girls were not surveyed

7.SP.1

Exit Slip

Name: _____ Date: _____

Would the following samples provide an accurate representation of all students in your class if you want to survey a sample of the class about whether they have a pet. Explain your answer.

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7.SP.1

Exit Slip

Name: ______________________ Date: ______

Determine whether the data collected in each survey represents a census or a sample:

A. Alex surveys each of the teachers at his school and concludes that 85% of them bring their own lunch.

Census

B. Megan surveys every seventh grader in her class and determines that 45% of 7^{th} graders favorite pizza is pepperoni. Sample

7.SP.1

Exit Slip

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7.SP.1

Exit Slip

Name: ______________________ Date: ______

Determine whether each survey result is a parameter or a statistic.

A. The state police set up a speed trap on Highway 85 to see how many drivers speed. They conclude that 7 out of every 10 drivers were speeding.

Parameter

B. According to an online pool 63% of all U.S. citizens support the president.

Statistic

7.SP.1

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Statistic

7.SP.1

Exit Slip

Name: _____ Date: _____

Determine if each sample is random or not random. Explain your reasoning.

A. Ali chooses the first 5 classmates that raise their hand to participate in her survey.

Not random

B. Ali writes down all her classmates names on a piece of paper, puts them in a jar and draw five names with her eyes closed.

Random

7.SP.2

Exit Slip

Name: _____ Date: _____

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Random

7.SP.2

Exit Slip

Name: _____ Date: _____

Write down your own example of a sample that is:

Random:

Answers will vary

Not Random:

7.SP.2

Exit Slip

Name: _____ Date: _____

Write down your own example of a sample that is:

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7.SP.2

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Name: _____ Date: _____

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Random:

Answers will vary

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7.SP.2

Exit Slip

Name: _____ Date: _____

Patti has a container of 20 shapes that are all different sizes and she wants to choose 4 at random. She will reach in a pull out 4 of the shapes without looking. Her teacher said this would not produce a random sample… why not?

It would not be a random sample because she would be able to feel the different sizes of the shapes

7.SP.2

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It would not be a random sample because she would be able to feel the different sizes of the shapes

7.SP.2

Exit Slip

Name: _____ **Date:** _____

Data was collected from two random samples of 50 students regarding their preference for movie types. Make two inferences based off of the data.

Sample	Action	Comedy	Romance
#1	32	15	3
#2	27	13	10

Answers will vary

7.SP.2

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Sample	Action	Comedy	Romance
#1	32	15	3
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Answers will vary

7.SP.2

Exit Slip

Name: _____ **Date:** _____

Data was collected about the total number of vehicle accidents in a major city each year.
Year 1: 315 accidents
Year 2: 335 accidents
Year 3: 375 accidents
Year 4: ?
What would you predict would be the number of accidents in year 4?

Around 455 accidents

7.SP.2

Exit Slip

Name: _____ **Date:** _____

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Year 4: ?
What would you predict would be the number of accidents in year 4?

Around 455 accidents

7.SP.2

Exit Slip

Name: _____ **Date:** _____

The table shows the results from 2 random samples of 100 students regarding their favorite ice cream. If you were to randomly select 10 students, based on the data, what number would you expect to respond that their favorite ice cream is chocolate? **3 or 4 students**

Sample	Vanilla	Chocolate	Strawberry
#1	27	34	39
#2	25	42	33

7.SP.2

Exit Slip

Name: _____ **Date:** _____

The table shows the results from 2 random samples of 100 students regarding their favorite ice cream. If you were to randomly select 10 students, based on the data, what number would you expect to respond that their favorite ice cream is chocolate? **3 or 4 students**

Sample	Vanilla	Chocolate	Strawberry
#1	27	34	39
#2	25	42	33

7.SP.2

Exit Slip

Name: _____ **Date:** _____

The table shows the results from 2 random samples of 100 students regarding their favorite ice cream. If you were to randomly select 10 students, based on the data, what number would you expect to respond that their favorite ice cream is chocolate? **3 or 4 students**

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#2	25	42	33

7.SP.2

Exit Slip

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The table shows the results from 2 random samples of 100 students regarding their favorite ice cream. If you were to randomly select 10 students, based on the data, what number would you expect to respond that their favorite ice cream is chocolate? **3 or 4 students**

Sample	Vanilla	Chocolate	Strawberry
#1	27	34	39
#2	25	42	33

7.SP.2

Exit Slip

Name: _____ **Date:** _____

The table shows the results from 2 random samples of 100 students regarding their favorite ice cream. Make two inferences based off of the data.

Sample	Vanilla	Chocolate	Strawberry
#1	27	34	39
#2	25	42	33

Answers will vary

7.SP.2

Exit Slip

Name: _____ **Date:** _____

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Sample	Vanilla	Chocolate	Strawberry
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Answers will vary

7.SP.2

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#1	27	34	39
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Answers will vary

7.SP.2

Exit Slip

Name: _____ Date: _____

In a sample of people in the town hall, 20 of 25 favorited building a new pool for the town. If 4,000 people vote in the next local election, how many are likely to vote in favor of the new pool?

3,200 people

7.SP.2

Exit Slip

Name: _____ Date: _____

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3,200 people

7.SP.2

Exit Slip

Name: _____ **Date:** _____

Data was collected about the total number of residents in a city each year
Year 1: 2,345 residents
Year 2: 3,870 residents
Year 3: 4,398 residents
Year 4: ?
What would you predict would be the number of residents in year 4?

Around 5,900 residents

7.SP.2

Exit Slip

Name: _____ **Date:** _____

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Year 1: 2,345 residents
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What would you predict would be the number of residents in year 4?

Around 5,900 residents

7.SP.2

Exit Slip

Name: _____ Date: _____

Explain why the following statement is incorrect:
In a sample of people in the school district, 6 out of 15 favorited a new high school being built. If 3,000 people vote in the next local election approximately 1,800 people would vote in favor of the new high school.

Incorrect it would be around 1,200 people. 1,800 people is the approximate amount of people that would vote against the new high school being built.

7.SP.2

Exit Slip

Name: _____ Date: _____

Explain why the following statement is incorrect:
In a sample of people in the school district, 6 out of 15 favorited a new high school being built. If 3,000 people vote in the next local election approximately 1,800 people would vote in favor of the new high school.

Incorrect it would be around 1,200 people. 1,800 people is the approximate amount of people that would vote against the new high school being built.

7.SP.2

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Incorrect it would be around 1,200 people. 1,800 people is the approximate amount of people that would vote against the new high school being built.

7.SP.2

Exit Slip

Name: _____ Date: _____

Explain in your own words how to find the mean absolute deviation (MAD) of a data set.

The mean of the absolute values of the deviations of each data point from the mean.

7.SP.3

Exit Slip

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The mean of the absolute values of the deviations of each data point from the mean.

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain in your own words how comparing the measures of center and variation for two population sets is helpful.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain in your own words how comparing the measures of center and variation for two population sets is helpful.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain in your own words how comparing the measures of center and variation for two population sets is helpful.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain in your own words how comparing the measures of center and variation for two population sets is helpful.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

True or False

False 1. The mean is not affected by extreme minimum and maximum values.

True 2. The mean absolute deviation shows how much spread there is between two data sets

7.SP.3

Exit Slip

Name: _____ Date: _____

True or False

False 1. The mean is not affected by extreme minimum and maximum values.

True 2. The mean absolute deviation shows how much spread there is between two data sets

7.SP.3

Exit Slip

Name: _____ Date: _____

True or False

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True or False

False 1. The mean is not affected by extreme minimum and maximum values.

True 2. The mean absolute deviation shows how much spread there is between two data sets

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain how to compare the mean and the spread of data for two populations from a dot pot.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain how to compare the mean and the spread of data for two populations from a dot pot.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain how to compare the mean and the spread of data for two populations from a dot pot.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Explain how to compare the mean and the spread of data for two populations from a dot pot.

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the means and the mean absolute deviation for the two data sets:

Set 1: 2, 4, 8, 10, 10

Mean = 6.8

MAD = 3.04

Set 2: 4, 8, 10, 10, 40

Mean = 14.4

MAD = 10.24

The difference in the means is 7.6 which falls between the MAD of Set 1 and 2

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the means and the mean absolute deviation for the two data sets:

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Set 2: 4, 8, 10, 10, 40

Mean = 14.4

MAD = 10.24

The difference in the means is 7.6 which falls between the MAD of Set 1 and 2

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the means and the mean absolute deviation for the two data sets:

Set 1: 24, 18, 32, 30

Mean = 26

MAD = 5

Set 2: 58, 50, 63, 12

Mean = 45.75

MAD = 17.125

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the means and the mean absolute deviation for the two data sets:

Set 1: 24, 18, 32, 30

Mean = 26

MAD = 5

Set 2: 58, 50, 63, 12

Mean = 45.75

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7.SP.3

Exit Slip

Name: _____ Date: _____

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7.SP.3

Exit Slip

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Set 1: 24, 18, 32, 30

Mean = 26

MAD = 5

Set 2: 58, 50, 63, 12

Mean = 45.75

MAD = 17.125

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in each problem.

Set 1: 16, 97, 52, 31

Median = 41.5

IQR = 51

Set 2: 18, 49, 91, 20

Median = 34.5

IQR = 51

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in each problem.

Set 1: 16, 97, 52, 31

Median = 41.5

IQR = 51

Set 2: 18, 49, 91, 20

Median = 34.5

IQR = 51

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in each problem.

Set 1: 16, 97, 52, 31

Median = 41.5

IQR = 51

Set 2: 18, 49, 91, 20

Median = 34.5

IQR = 51

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in each problem.

Set 1: 16, 97, 52, 31

Median = 41.5

IQR = 51

Set 2: 18, 49, 91, 20

Median = 34.5

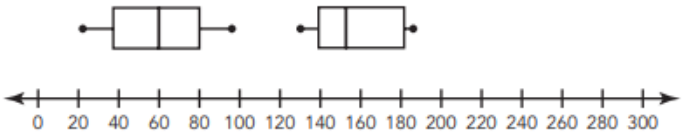
IQR = 51

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in the following box and whisker plots:



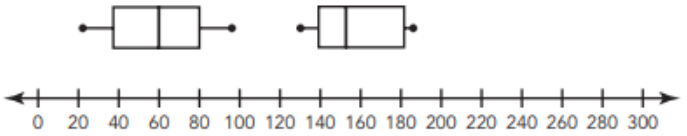
Answers may vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in the following box and whisker plots:



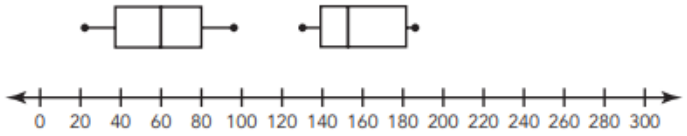
Answers may vary

7.SP.3

Exit Slip

Name: _____ Date: _____

Compare the medians and the IQRs of the data sets in the following box and whisker plots:



Answers may vary

7.SP.3

Exit Slip

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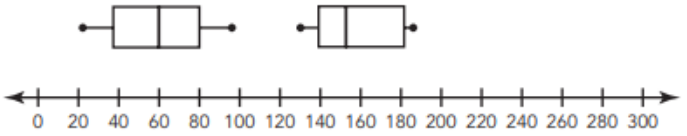
Compare the medians and the IQRs of the data sets in the following box and whisker plots:



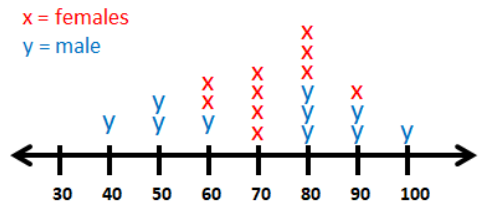
Answers may vary

7.SP.3

Exit Slip

Name: _____ **Date:** _____

Compare the means and the mean absolute deviation for the follow dot pot below. The dot plot represents test scores in Mr.Lou's science class.



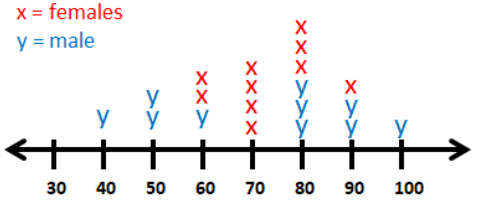
Females:
Mean = 73
MAD = 7.6
Males:
Mean = 72
MAD = 17.6

7.SP.3

Exit Slip

Name: _____ **Date:** _____

Compare the means and the mean absolute deviation for the follow dot pot below. The dot plot represents test scores in Mr.Lou's science class.



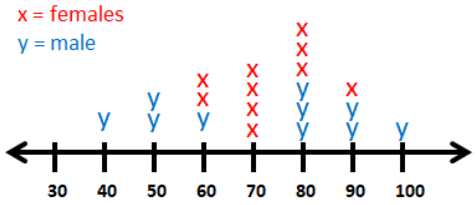
Females:
Mean = 73
MAD = 7.6
Males:
Mean = 72
MAD = 17.6

7.SP.3

Exit Slip

Name: _____ **Date:** _____

Compare the means and the mean absolute deviation for the follow dot pot below. The dot plot represents test scores in Mr.Lou's science class.



Females:
Mean = 73
MAD = 7.6
Males:
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MAD = 17.6

7.SP.3

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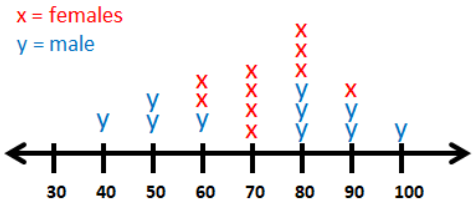
Compare the means and the mean absolute deviation for the follow dot pot below. The dot plot represents test scores in Mr.Lou's science class.



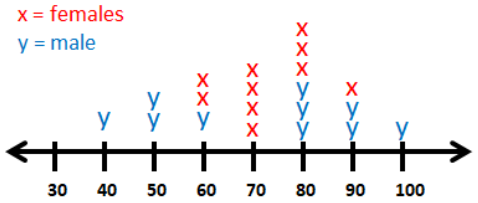
Females:
Mean = 73
MAD = 7.6
Males:
Mean = 72
MAD = 17.6

7.SP.3

Exit Slip

Name: _____ **Date:** _____

The dot plot represents test scores in Mr.Lou's science class. What observations can you make about the spread of the two data sets?



Answers will vary

7.SP.3

Exit Slip

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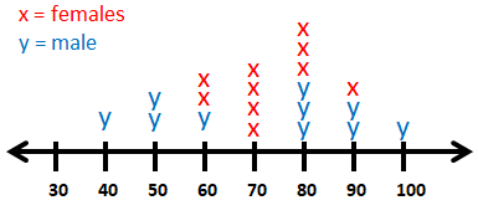

Answers will vary

7.SP.3

Exit Slip

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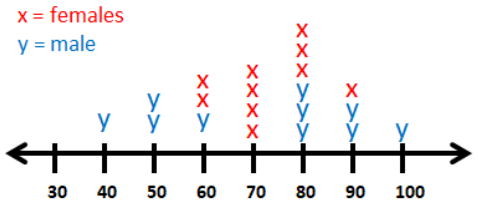

Answers will vary

7.SP.3

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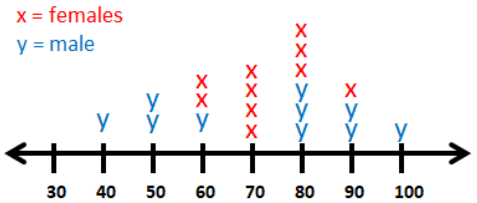

Answers will vary

7.SP.3

Exit Slip

Name: _____ Date: _____

True or False

True 1. Measures of center provide a summary about the data.

False 2. Variation provides information about how much the data varies within the sample.

7.SP.4

Exit Slip

Name: _____ Date: _____

True or False

True 1. Measures of center provide a summary about the data.

False 2. Variation provides information about how much the data varies within the sample.

7.SP.4

Exit Slip

Name: _____ Date: _____

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7.SP.4

Exit Slip

Name: _____ Date: _____

True or False

True 1. Measures of center provide a summary about the data.

False 2. Variation provides information about how much the data varies within the sample.

7.SP.4

Exit Slip

Name: _____ Date: _____

Find the measures of center and variability for the data set below:

7, 12, 19, 35, 35, 42, 81

Mean: 33
Median: 35
Mode: 35

Lower Quartile: 12
Upper Quartile: 42
Inner Quartile Range: 30
Range: 74

7.SP.4

Exit Slip

Name: _____ Date: _____

Find the measures of center and variability for the data set below:

7, 12, 19, 35, 35, 42, 81

Mean: 33
Median: 35
Mode: 35

Lower Quartile: 12
Upper Quartile: 42
Inner Quartile Range: 30
Range: 74

7.SP.4

Exit Slip

Name: _____ Date: _____

Find the measures of center and variability for the data set below:

7, 12, 19, 35, 35, 42, 81

Mean: 33
Median: 35
Mode: 35

Lower Quartile: 12
Upper Quartile: 42
Inner Quartile Range: 30
Range: 74

7.SP.4

Exit Slip

Name: _____ Date: _____

Find the measures of center and variability for the data set below:

7, 12, 19, 35, 35, 42, 81

Mean: 33
Median: 35
Mode: 35

Lower Quartile: 12
Upper Quartile: 42
Inner Quartile Range: 30
Range: 74

7.SP.4

Exit Slip

Name: _____ Date: _____

A cell phone company was surveying the ages of shoppers that were buying new cell phones on Friday and Saturday. Compare the data from the two days and draw two observations.

Friday: 13, 17, 29, 35, 21, 32, 18, 22, 49, 30
Saturday: 16, 18, 16, 32, 36, 25, 28, 12, 13, 15, 43

Answers will vary

7.SP.4

Exit Slip

Name: _____ Date: _____

A cell phone company was surveying the ages of shoppers that were buying new cell phones on Friday and Saturday. Compare the data from the two days and draw two observations.

Friday: 13, 17, 29, 35, 21, 32, 18, 22, 49, 30
Saturday: 16, 18, 16, 32, 36, 25, 28, 12, 13, 15, 43

Answers will vary

7.SP.4

Exit Slip

Name: _____ Date: _____

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Friday: 13, 17, 29, 35, 21, 32, 18, 22, 49, 30
Saturday: 16, 18, 16, 32, 36, 25, 28, 12, 13, 15, 43

Answers will vary

7.SP.4

Exit Slip

Name: _____ Date: _____

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Answers will vary

7.SP.4

Exit Slip

Name: _____ Date: _____

A cell phone company was surveying the ages of shoppers that were buying new cell phones on Friday and Saturday. According to their data which day is more likely to have a teenager buy a phone.

Friday: 13, 17, 29, 35, 21, 32, 18, 22, 49, 30
Saturday: 16, 18, 16, 32, 36, 25, 28, 12, 13, 15, 43

Saturday because the mean age is lower than Saturday

7.SP.4

Exit Slip

Name: _____ Date: _____

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Saturday because the mean age is lower than Saturday

7.SP.4

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Saturday because the mean age is lower than Saturday

7.SP.4

Exit Slip

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Saturday: 16, 18, 16, 32, 36, 25, 28, 12, 13, 15, 43

Saturday because the mean age is lower than Saturday

7.SP.4

Exit Slip

Name: ______________________ Date: ______

Jack's BBQ and Carlos Cantina restaurants say they have the shortest wait times in town. The following shows the wait times, in minutes, of different customers without reservations

Jack's: 7, 15, 9, 12, 4, 8, 11, 23

Carlos: 18, 21, 14, 6, 5, 12, 10, 9

A. Calculate the mean wait time for both restaurants.

Jack – 11.13 minutes Carlos – 11.88 minutes

B. Which restaurant seems to have faster service?

Jack's BBQ

7.SP.4

Exit Slip

Name: ______________________ Date: ______

Jack's BBQ and Carlos Cantina restaurants say they have the shortest wait times in town. The following shows the wait times, in minutes, of different customers without reservations

Jack's: 7, 15, 9, 12, 4, 8, 11, 23

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A. Calculate the mean wait time for both restaurants.

Jack – 11.13 minutes Carlos – 11.88 minutes

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Jack's BBQ

7.SP.4

Exit Slip

Name: ______________________ Date: ______

Jack's BBQ and Carlos Cantina restaurants say they have the shortest wait times in town. The following shows the wait times, in minutes, of different customers without reservations

Jack's: 7, 15, 9, 12, 4, 8, 11, 23

Carlos: 18, 21, 14, 6, 5, 12, 10, 9

A. Calculate the mean wait time for both restaurants.

Jack – 11.13 minutes Carlos – 11.88 minutes

B. Which restaurant seems to have faster service?

Jack's BBQ

7.SP.4

Exit Slip

Name: ______________________ Date: ______

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Complete a dot plot of waiting times for both restaurants. Make sure to make a key to distinguish the difference between the restaurants.

Check students dot plots, make sure they have created a key

7.SP.4

Exit Slip

Name: _____ Date: _____

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Which measure of center would you use if:

A. You are Jack:

Median because it is 10 minutes and the mean is 11.13

B. You are Carlos:

Median because its 11 and the mean is 11.88

7.SP.4

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7.SP.4

Exit Slip

Name: ______________________ Date: ______

The following numbers are the scores on Ms. Gales and Mr. George's math test they gave to their class:

Gales: 98, 65, 75, 32, 58, 99, 85, 81, 57, 71

George: 68, 73, 87, 88, 95, 56, 61, 79, 83, 89

A. What is the range of scores in both classes?

Gales: 66 George: 39

B. Whose class has the highest range of scores?

Ms. Gales class

7.SP.4

Exit Slip

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A. What is the mean score of both classes?

Gales: 71.8 George: 77.9

B. Which class had the highest mean?

Mr. George's class

7.SP.4

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A. What measure of center should Ms. Gales use to show her class scores?

Median

B. What measure of center should Mr. George use to show his class scores?

Mean

7.SP.4

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Exit Slip

Name: _____ Date: _____

True or False

True 1. The probability of a chance event is a number between 0 and 1.

False 2. Smaller numbers indicate greater likelihood.

False 3. A probability near 0 indicates a likely event.

True 4. A probability around ½ indicates an event that is either unlikely nor likely.

7.SP.5

Exit Slip

Name: _____ Date: _____

True or False

True 1. The probability of a chance event is a number between 0 and 1.

False 2. Smaller numbers indicate greater likelihood.

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7.SP.5

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7.SP.5

Exit Slip

Name: _____ **Date:** _____

Match the following words to the correct definition:

C **1. Experiment**

D **2. Probability**

E **3. Outcome**

A **4. Event**

B **5. Sample Space**

A. One or a group of possible outcomes for a given situation
B. A list of possible outcomes of an experiment
C. Situation involving chance that leads to results
D. Measure of the likelihood that an event will occur
E. Result of an experiment

7.SP.5

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7.SP.5

Exit Slip

Name: ______________________ Date: ______

Fill in the blanks

___Probability___ is a measure of the likelihood that an ___event___ will occur. To calculate the probability of an event or P(event), determine the ___ratio___ of the number of times the event ___occurs___ to the total number of ___outcomes___.

7.SP.5

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Name: ______________________ Date: ______

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7.SP.5

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7.SP.5

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7.SP.5

Exit Slip

Name: _____ Date: _____

Write the formula to determine the probability of an event.

$$Probability = \frac{\#\ of\ times\ an\ event\ can\ occur}{\#\ of\ possible\ outcomes}$$

7.SP.5

Exit Slip

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7.SP.5

Exit Slip

Name: _____ Date: _____

A six sided number cube has one number, from 1 through 6, on each cube. Determine the probability of the following:

P(4) $\frac{1}{6}$

P(even #) $\frac{1}{2}$

P(1 or 2) $\frac{1}{3}$

7.SP.5

Exit Slip

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Exit Slip

Name: _____ Date: _____

A six sided number cube has one number, from 1 through 6, on each cube. Determine the probability of the following:

P(greater than 3) $\frac{1}{2}$

P(less than 5) $\frac{2}{3}$

7.SP.5

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Name: _____ Date: _____

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7.SP.5

Exit Slip

Name: _____ Date: _____

Consider the spinner shown. All sections of the spinner are the same size.

1. How many possible outcomes are there in the experiment?

   4 because there are 4 different colors

2. List the sample space for the experiment.

7.SP.5 {purple, yellow, red, blue}

Exit Slip

Name: _____ Date: _____

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7.SP.5 {purple, yellow, red, blue}

Exit Slip

Name: ______________________ Date: _______

Consider the spinner shown. All sections of the spinner are the same size. Determine the probability of the following:

1. P(purple) $\frac{3}{8}$
2. P(not yellow) $\frac{3}{4}$

7.SP.5

Exit Slip

Name: ______________________ Date: _______

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7.SP.5

Exit Slip

Name: _____ Date: _____

1. What is the greatest possible probability in any experiment? Explain your answer.

   Greatest probability is 1.

   Check students reasoning

2. What is the least possible probability in any experiment? Explain your answer.

   Least possible probability is

   0. Check students reasoning

7.SP.5

Exit Slip

Name: _____ Date: _____

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7.SP.5

Exit Slip

Name: _____ Date: _____

Determine if the following event is certain to occur, just as likely to occur as not to occur, or impossible to occur. Then write the probability.

A coin is flipped and coin lands tails up.

Just as likely to be heads as it is to be tails and the probability is $\frac{1}{2}$

7.SP.5

Exit Slip

Name: _____ Date: _____

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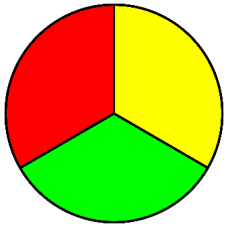
7.SP.5

Exit Slip

Name: _____ Date: _____

If I spin the spinner below 20 times, I can expect it to land on yellow 15 times. Explain why this statement is incorrect.

Incorrect because there is a 1/3 chance you will land on blue every time so you have to figure out what 1/3 of 20 is so it would be about 6 or 7.



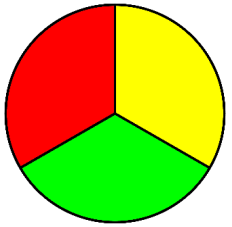
7.SP.6

Exit Slip

Name: _____ Date: _____

If I spin the spinner below 20 times, I can expect it to land on yellow 15 times. Explain why this statement is incorrect.

Incorrect because there is a 1/3 chance you will land on blue every time so you have to figure out what 1/3 of 20 is so it would be about 6 or 7.



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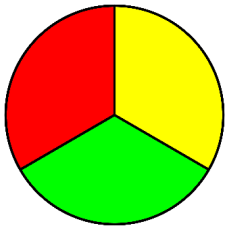

7.SP.6

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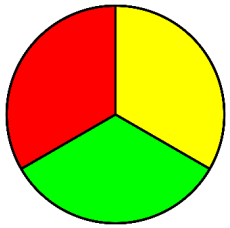


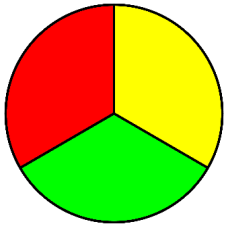
7.SP.6

Exit Slip

Name: _____ Date: _____

Jackson spins the spinner below 200 times. How many times is expected for him to land on red?

Approximately 66 or 67 times



7.SP.6

Exit Slip

Name: _____ Date: _____

Jackson spins the spinner below 200 times. How many times is expected for him to land on red?

Approximately 66 or 67 times

7.SP.6

Exit Slip

Name: _____ Date: _____

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Approximately 66 or 67 times

7.SP.6

Exit Slip

Name: _____ Date: _____

Jackson spins the spinner below 200 times. How many times is expected for him to land on red?

Approximately 66 or 67 times

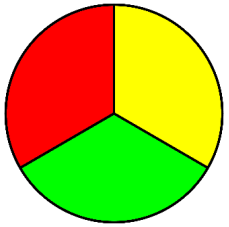
7.SP.6

Exit Slip

Name: _____ Date: _____

If you spin the spinner 50 times. What is the theoretical probability you will land on red?

Approximately 16 or 17 times



7.SP.6

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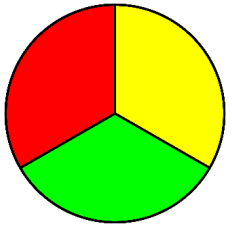
Name: _____ Date: _____

If you spin the spinner 50 times. What is the theoretical probability you will land on red?

Approximately 16 or 17 times



7.SP.6

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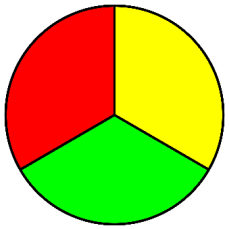

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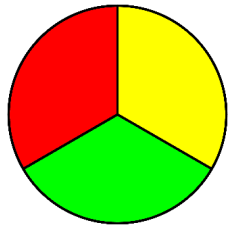

7.SP.6

Exit Slip

Name: _____ Date: _____

George has a bag of 11 red marbles, 14 blue marbles, and 5 yellow marbles. How many red marble draws is expected if 1.000 draws are conducted and each time the marbles are put back into the bag.

Approximately 366 or 367 times

7.SP.6

Exit Slip

Name: _____ Date: _____

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7.SP.6

Exit Slip

Name: _____ Date: _____

Explain the difference between experimental probability and theoretical probability.

Answers will vary

7.SP.6

Exit Slip

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Answers will vary

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Exit Slip

Name: _____ Date: _____

Explain the difference between experimental probability and theoretical probability.

Answers will vary

7.SP.6

Exit Slip

Name: _____ Date: _____

Will the experimental probability and the theoretical probability always be close to the same thing? Explain your answer.

Answers will vary

7.SP.6

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Answers will vary

7.SP.6

Exit Slip

Name: _____ Date: _____

In Mr. Smith's 7th Hour class there are 16 boys and 7 girls. What is the probability of randomly selecting a boy?

16/23 or about 70%

7.SP.6

Exit Slip

Name: _____ Date: _____

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7.SP.6

Exit Slip

Name: ______________________ Date: ______

The numbers 1 – 12 are written on separate cards and placed in a bag.

A. What is the probability of drawing a number that is divisible by 5? 1/6

B. Approximately how many times would a number that is divisible by 5 be drawn if you did 500 draws putting the card back each time?

Approximately 83 times

7.SP.6

Exit Slip

Name: ______________________ Date: ______

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Approximately 83 times

7.SP.6

Exit Slip

Name: ______________________ Date: _______

A regular six-sided number cube was rolled 30 times.

A. What is the theoretical probability of rolling a number less than 4?

1/2

B. What is the theoretical probability of rolling a 2?

1/6

C. What is the theoretical probability of rolling an odd number?

1/2

7.SP.6

Exit Slip

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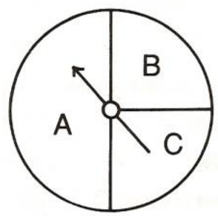
7.SP.6

Exit Slip

Name: ______________________ Date: ______

Determine if each scenario can be calculated experimentally, theoretically, or both. Explain your reasoning.



A. The probability of the spinner landing on the letter A

Both check students reasoning

B. The probability a particular medicine will cure a disease.

Experimentally check students reasoning

7.SP.6

Exit Slip

Name: ______________________ Date: ______

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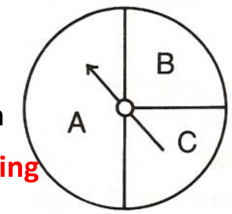

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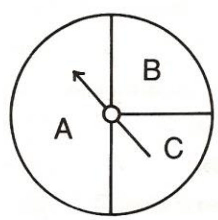

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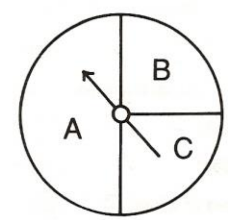

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7.SP.6

Exit Slip

Name: _____ Date: _____

Fill in the blanks for each sentence:

1. When all probabilities in a probability model are the same, it is called a Uniform probability model.
2. When all probabilities in a probability model are not the same, it is called a Non - uniform probability model.
3. A probability model is a list of each possible outcome along with its probability.

7.SP.7

Exit Slip

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Exit Slip

Name: _____ Date: _____

Ashley flipped a quarter 80 times and got 65% heads and 35% tails. What will happen to these percent's as Ashley continued to flip the quarter?

They will get closer and closer to 50% the more she flips the quarter

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7.SP.7

Exit Slip

Name: _____ Date: _____

You roll two standard dice. What is the probability that both dice will show the number 1?

1/36

7.SP.7

Exit Slip

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7.SP.7

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7.SP.7

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Name: _____ Date: _____

You roll two standard dice. What is the probability that both dice will show the number 1?

1/36

7.SP.7

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between a uniform probability model and a non-uniform probability model.

Answers will vary

7.SP.7

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between a uniform probability model and a non-uniform probability model.

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Answers will vary

7.SP.7

Exit Slip

Name: _____ Date: _____

Explain why the sum of the probabilities in a probability model is always 1.

Answers will vary

7.SP.7

Exit Slip

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Answers will vary

7.SP.7

Exit Slip

Name: _____ **Date:** _____

Max was asked to spin a penny 100 times and record how many times a heads came up and how many times a tail came up. Before doing the experiment, Max predicted the probability of heads and tails to both be 0.5. When the experiment was complete Max counted 82 tails and 18 heads.

A. What is the estimated probability of spinning a penny and landing on tails?

0.82

B. According to Max's experimental results, predict how many tails Max would get if he were to spin the penny 400 times.

328 times

7.SP.7

Exit Slip

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Were Max's results consistent with his predictions?

No because his prediction was 0.5 for tails and 0.5 for heads and his actual results were 0.82 for tails and 0.18 for heads

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7.SP.7

Exit Slip

Name: _____ Date: _____

Alice has a box of 70 balloons for her birthday party. 40 of the balloons are yellow, 20 pink, and 10 blue. What is the probability that a randomly selected balloon will be pink?

2/7 – probability of selecting a pink balloon

7.SP.7

Exit Slip

Name: _____ Date: _____

Alice has a box of 70 balloons for her birthday party. 40 of the balloons are yellow, 20 pink, and 10 blue. What is the probability that a randomly selected balloon will be pink?

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7.SP.7

Exit Slip

Name: _____ Date: _____

The following movies are coming out this weekend with the expected amount of people to attend them.

1. Create a probability model

   Check students models

2. Randomly choosing a person going to see Transformers.

2400/11400 = 4/19

7.SP.7

Movie	# of people
Transformers	2400
Avengers	5200
Spiderman	3800

Exit Slip

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Exit Slip

Name: _____ **Date:** _____

Mr. Young got his class list for the year which he broke down into gender shown in the table below:

Gender	#
Male	14
Female	11

If a student is selected a random find the probability that:

1. **Erica (a student in the class will be selected)**

   1/25

2. **A female will be selected**

   11/25

7.SP.7

Exit Slip

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7.SP.7

Exit Slip

Name: _____ Date: _____

Explain in your own words the difference between independent and dependent events.

Answers will vary

7.SP.8

Exit Slip

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Name: _____ Date: _____

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Answers will vary

7.SP.8

Exit Slip

Name: _____ **Date:** _____

Mrs. Carp's class has 11 boys and 17 girls. What is the probability that she will randomly choose a girl first and then a boy?

$$\frac{17}{28} \times \frac{11}{28} = .61 \times .39 = .24$$

7.SP.8

Exit Slip

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Exit Slip

Name: _____ **Date:** _____

Your teacher gives you a multiple choice quiz with a total of 5 questions and each questions has four options. If you guess on every single question. What is the probability that you will get all five questions correct?

$$\frac{1}{1,024}$$

7.SP.8

Exit Slip

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7.SP.8

Exit Slip

Name: _____ Date: _____

There are 3 marbles (orange, blue, and red). If you choose one marble out of the bag and a flip a coin how many total outcomes are possible?

6 different possibilities

7.SP.8

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Exit Slip

Name: ______________________ Date: ______

Ali is pulling marbles out of a bag. Inside the bag there are 12 green, 11 yellow, 5 blue, and 2 red marbles.

A. How many marbles are in the bag?

30 marbles

B. What is the probability Ali pulls a green or red marble?

$$\frac{12}{30} or \frac{2}{30} = \frac{14}{30}, or \frac{7}{15}$$

C. What is the probability that Ali pulls a green marble and then red marble and the marbles are not put back?

$$\frac{12}{30} \times \frac{2}{29} = \frac{24}{870} = \frac{4}{145}$$

7.SP.8

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$$\frac{12}{30} or \frac{2}{30} = \frac{14}{30}, or \frac{7}{15}$$

C. What is the probability that Ali pulls a green marble and then red marble and the marbles are not put back?

$$\frac{12}{30} \times \frac{2}{29} = \frac{24}{870} = \frac{4}{145}$$

7.SP.8

Exit Slip

Name: _____ Date: _____

Explain how to determine the probability of a compound event. Include both types of compound events.

Answers will vary

7.SP.8

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Name: _____ Date: _____

You are playing a board game with friends and you must roll two regular six sided die every turn. If you roll doubles you roll again. However, if you roll doubles three times in a row you lose your turn. What is the probability of rolling three doubles in a row?

1/216

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7.SP.8

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Name: _____ Date: _____

Explain in your own words the difference between the words and and or.

Answers will vary

7.SP.8

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Name: _____ Date: _____

Jack chose four cards randomly from a deck. What is the probability of getting a Jack, Queen, King and an Ace without replacement?

$$\frac{4}{52} \times \frac{4}{51} \times \frac{4}{50} \times \frac{4}{49}$$
$$= \frac{256}{6,497,400} = \frac{32}{812,175}$$

7.SP.8

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Exit Slip

Name: _____ Date: _____

You are going on a picnic and take with you the following:

2 types of bread
3 types of meat
3 types of cheese

How many different sandwich combinations are possible?

18 combinations

7.SP.8

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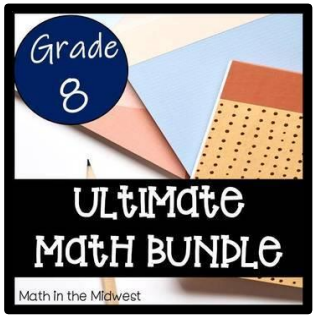
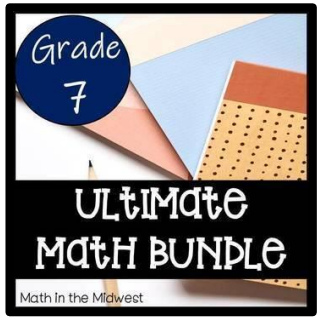
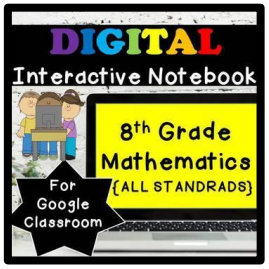
Check out my other products!

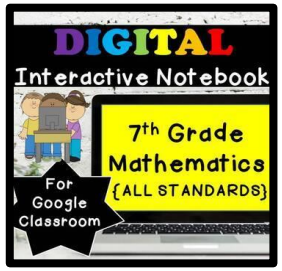
Ultimate Bundles:



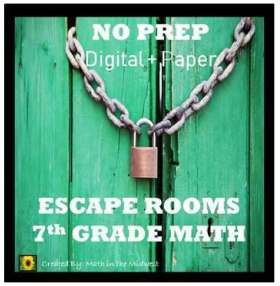


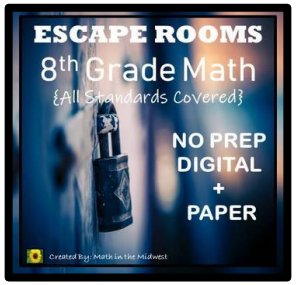
Digital Bundles:

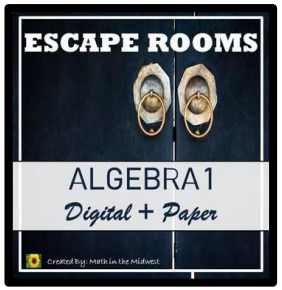




Escape Rooms:







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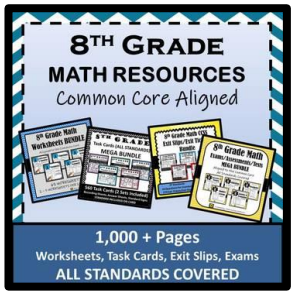

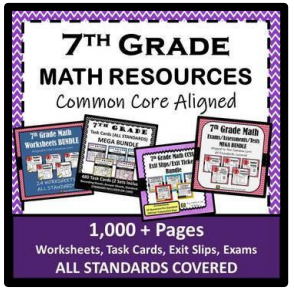

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