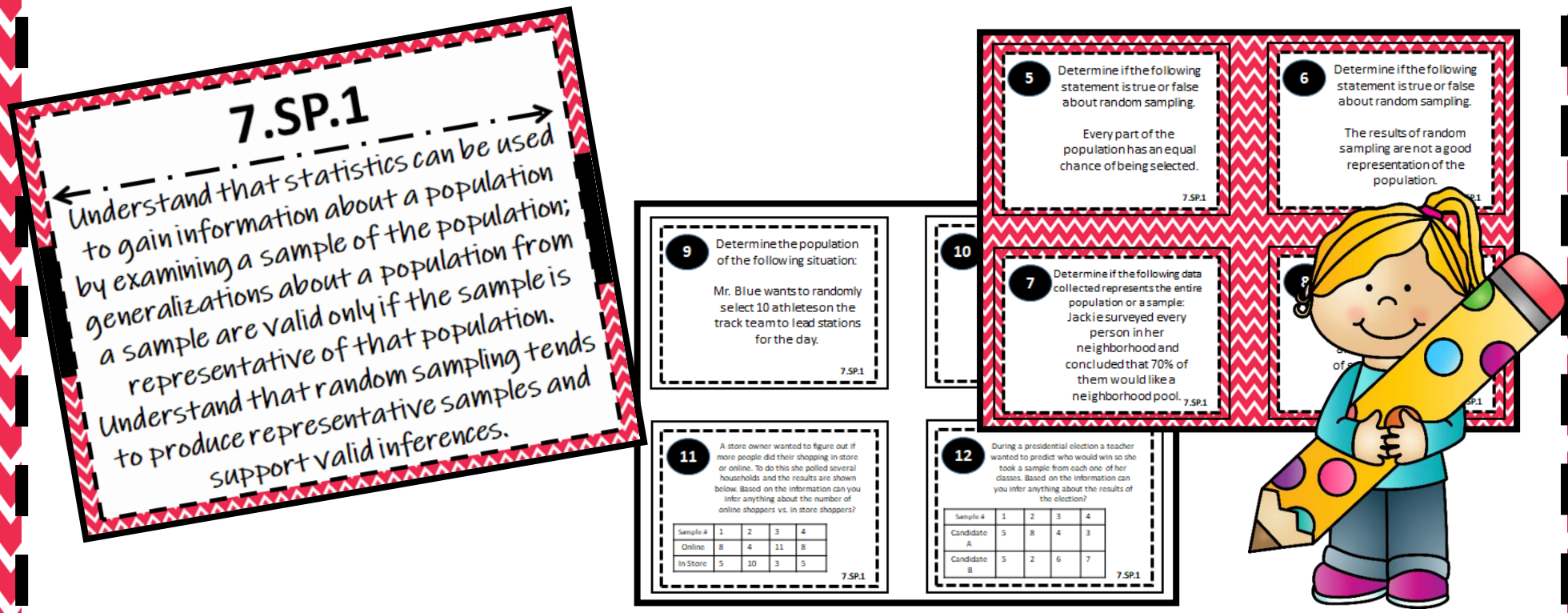
Statistics & Probability Task Cards 7.SP.1

20 Task Cards, Recording Sheet, Answer Sheet



Created by:
Math in the Midwest

7.SP.1

Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.

1

If the population or the entire set is to difficult to use you can instead use a

_____

of the population.

7.SP.1

2

_____ _____

refers to the name of a technique in which all members of a group have an equal probability of being chosen.

7.SP.1

3

Determine if the following populations would best be studied using the entire population or a sample:

Students in one band class

7.SP.1

4

Determine if the following populations would best be studied using the entire population or a sample:

Students in the state of Texas

7.SP.1

5

Determine if the following statement is true or false about random sampling.

Every part of the population has an equal chance of being selected.

7.SP.1

6

Determine if the following statement is true or false about random sampling.

The results of random sampling are not a good representation of the population.

7.SP.1

7

Determine if the following data collected represents the entire population or a sample:

Jackie surveyed every person in her neighborhood and concluded that 70% of them would like a neighborhood pool.

7.SP.1

8

Determine if the following data collected represents the entire population or a sample:

Brendon surveyed every seventh grader in his class and determined that 30% of seventh graders favorite movie genre is action.

7.SP.1

9

Determine the population of the following situation:

Mr. Blue wants to randomly select 10 athletes on the track team to lead stations for the day.

7.SP.1

10

Determine the sample of the following situation:

Mr. Blue wants to randomly select 10 athletes on the track team to lead stations for the day.

7.SP.1

11

A store owner wanted to figure out if more people did their shopping in-store or online. To do this she polled several households and the results are shown below. Based on the information can you infer anything about the number of online shoppers vs. in store shoppers?

Sample #	1	2	3	4
Online	8	4	11	8
In-Store	5	10	3	5

7.SP.1

12

During a presidential election a teacher wanted to predict who would win so she took a sample from each one of her classes. Based on the information can you infer anything about the results of the election?

Sample #	1	2	3	4
Candidate A	5	8	4	3
Candidate B	5	2	6	7

7.SP.1

13

A restaurant chain wanted to find out how the food was in their store. Identify which choice best represents a sample.

A. 100 customers who spent over $50
B. All of the people who ate at the restaurant on Friday
C. 1 out of every 50 customers.

7.SP.1

14

A school counselor wants to see which subject the 1,200 high school students at the school like best. Identify which choice best represents a sample

A. All the students in 9^{th} grade
B. 50 randomly selected students in 9^{th}, 10^{th}, 11^{th}, and 12^{th} grade.
C. The students making a C in math

7.SP.1

15

The president wanted to see if people thought he was doing a good job. Identify which choice best represents a sample.

A. 5,000 voters from all different states
B. Residents of one city
C. 2,00 voters aged 18 to 29.

7.SP.1

16

A cell phone company was tracking how many text messages people send a month. Identify which choice best represents a sample.

A. 500 teenagers
B. 1 out of every 100 of their customers
C. All of their customers

7.SP.1

17

A radio company wanted to see what station people listened to the most in a certain state. Identify which choice best represents a population

A. Every person in the state
B. One entire city
C. A selection of people from city in the state.

7.SP.1

18

Determine if the following sample provides an accurate representation of all students in your class.

The selection of every fourth student alphabetically.

7.SP.1

19

Determine if the following sample provides an accurate representation of all students in your class.

The selection of every female in the class.

7.SP.1

20

Determine which of the following populations would more than likely need a sample:

A. Students in one 6^{th} grade class
B. Teachers at a middle school
C. All 8^{th} graders on the volleyball team
D. All 6^{th} graders in Dallas

7.SP.1

21

7.SP.1

22

7.SP.1

23

7.SP.1

24

7.SP.1

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7.SP.1

21

7.SP.1

22

7.SP.1

23

7.SP.1

24

7.SP.1

Name _____ Hour _____

7.SP.1 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____ Hour _____

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

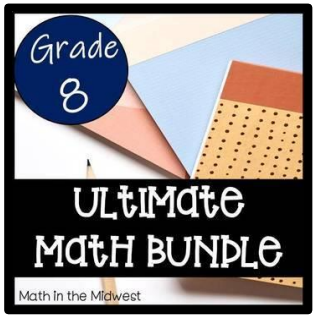
Answer Key

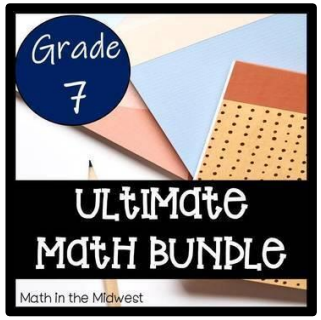
Number	Answer
1	Sample
2	Random Sampling
3	Population
4	Sample
5	True
6	False
7	Population
8	Sample
9	Entire Track Team
10	10 Randomly Selected Athletes

Number	Answer
11	More Online Shoppers
12	Impossible to make a predicition
13	C
14	B
15	A
16	B
17	A
18	Accurate
19	Not Accurate
20	D

Check out my other products!

Ultimate Bundles:





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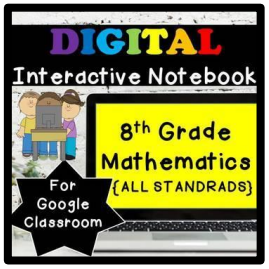
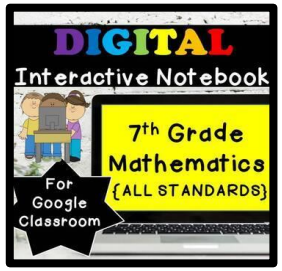
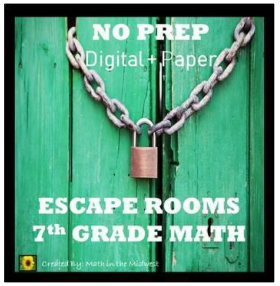
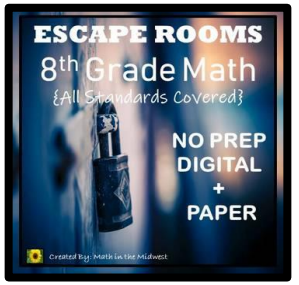
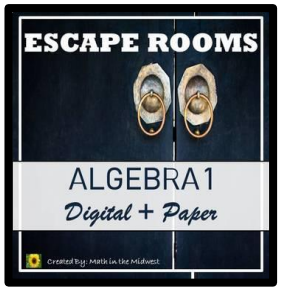




Escape Rooms:







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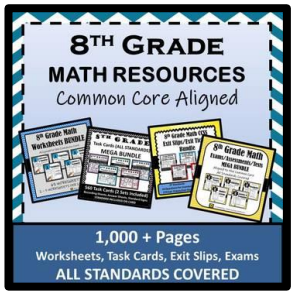

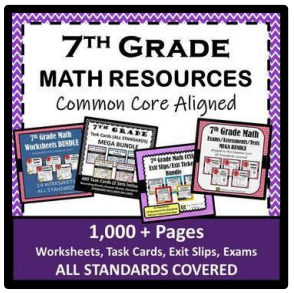

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