Statistics & Probability Task Cards 8.SP.4

20 Task Cards, Recording Sheet, Answer Sheet

8.SP.4

Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or colum... describe possible association betwe... two variables.

9 Use the two way frequency table to answer the question:

	Pets	No Pets	Total
Male	24	11	
Female	27	10	
Total			

What is the relative frequency of females that do not have a pet?

8.SP.4

10 Use the two way frequency table to answer the question:

	Tech	Art	Band	Total
7th	42	29	52	
8th	57	23	49	
Total				

How many total people are represented in this survey?

8.SP.4

12 Use the two way frequency table to answer the question:

	Tech	Art	Band	Total
7th	42	29	52	
8th	57	23	49	
Total				

Which grade had the highest percentage of people who preferred technology?

8.SP.4

17 Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
Students	42	24	57	123

18 Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
Students	42	24	57	123
			68	166

8.SP.4

Created by:

Math in the Midwest

8.SP.4

Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables.

1

Determine the vocabulary word that describes:
The number of times a variable appears in a data set

8.SP.4

2

Determine the vocabulary word that describes:
Data that can be grouped into categories

8.SP.4

3

Determine the vocabulary word that describes:
Percent or Proportion of observations within a category of a data set

8.SP.4

4

Use the two way frequency table to answer the question:

	Pets	No Pets	Total
Male	24	11	
Female	27	10	
Total			

Are there more males or females represented?

8.SP.4

5

Use the two way frequency table to answer the question:

	Pets	No Pets	Total
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Female	27	10	
Total			

Do the males or females have more pets according to this survey?

8.SP.4

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Use the two way frequency table to answer the question:

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8.SP.4

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Male	24	11	
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Total			

How many more females are represented than males?

8.SP.4

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What is the relative frequency of males that have a pet?

8.SP.4

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11

Use the two way frequency table to answer the question:

	Tech	Art	Band	Total
7th	42	29	52	
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Total				

If one class had to be eliminated which class would be the best to eliminate?

8.SP.4

12

Use the two way frequency table to answer the question:

	Tech	Art	Band	Total
7th	42	29	52	
8th	57	23	49	
Total				

Which grade had the highest percentage of people who preferred technology?

8.SP.4

13

Use the two way frequency table to answer the question:

	Cookies	Ice Cream	Pie	Total
Male	58	75	32	165
Female	56	83	41	180
Total	114	158	73	345

Out of the people surveyed what percentage are female? **8.SP.4**

14

Use the two way frequency table to answer the question:

	Cookies	Ice Cream	Pie	Total
Male	58	75	32	165
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What percentage of people preferred ice cream? **8.SP.4**

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Use the two way frequency table to answer the question:

	Cookies	Ice Cream	Pie	Total
Male	58	75	32	165
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What percentage of males preferred either cookies or ice cream? **8.SP.4**

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	Italian	Mexican	American	Total
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Students	42	24	57	123
Total	56	42	68	166

Out of the people surveyed what is the most popular type of food?

8.SP.4

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Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
Students	42	24	57	123
Total	56	42	68	166

What percentage of the teachers preferred Mexican food?

8.SP.4

19

Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
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Total	56	42	68	166

What percentage of the students preferred Italian food?

8.SP.4

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Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
Students	42	24	57	123
Total	56	42	68	166

If you could only choose two food options for a teacher/student luncheon which two options would be best to choose?

8.SP.4

21

8.SP.4

22

8.SP.4

23

8.SP.4

24

8.SP.4

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Which grade had the highest percentage of people who preferred technology?

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Out of the people surveyed what is the most popular type of food?

8.SP.4

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Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
Students	42	24	57	123
Total	56	42	68	166

What percentage of the teachers preferred Mexican food?

8.SP.4

19

Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
Students	42	24	57	123
Total	56	42	68	166

What percentage of the students preferred Italian food?

8.SP.4

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Use the two way frequency table to answer the question:

	Italian	Mexican	American	Total
Teachers	14	18	11	43
Students	42	24	57	123
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8.SP.4

21

8.SP.4

22

8.SP.4

23

8.SP.4

24

8.SP.4

Name _____ Hour _____

8.SP.4 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	Frequency
2	Categorical Data
3	Relative Frequency
4	Females
5	Females
6	72 people
7	2 Females
8	69%
9	14%
10	252 people

Number	Answer
11	Art
12	8th Grade by 10%
13	52%
14	46%
15	46%
16	81%
17	American
18	42%
19	34%
20	Italian and American

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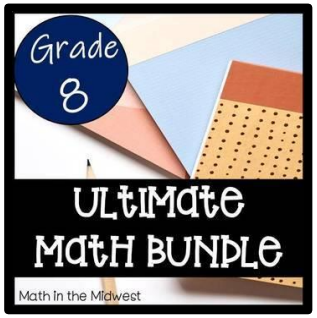

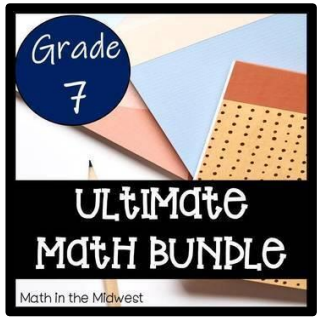

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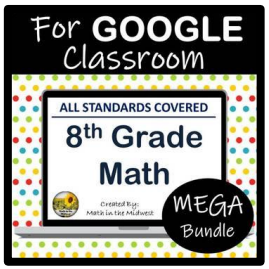

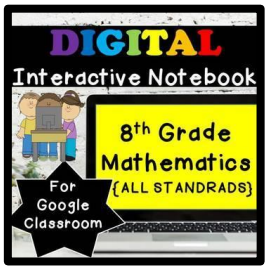

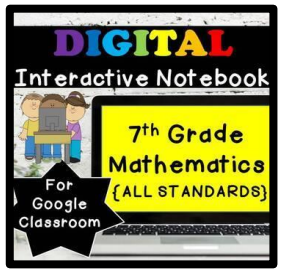

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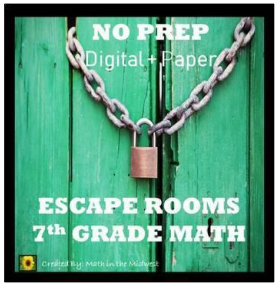

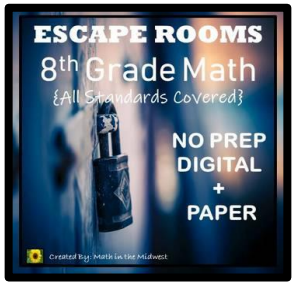

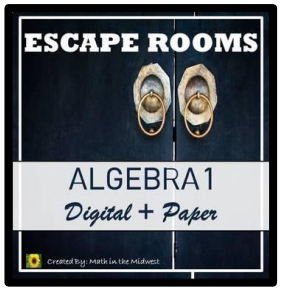

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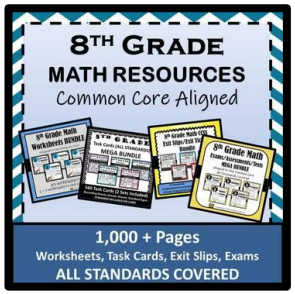

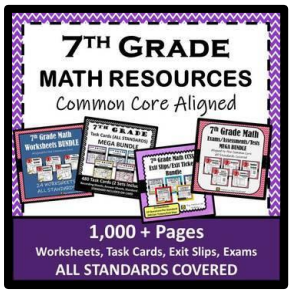

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