Statistics & Probability Task Cards 7.SP.4

20 Task Cards, Recording Sheet, Answer Sheet

7.SP.4

Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations.

13 The number of runs scored by a softball team over the weekend are listed below. Find the mean of these scores:

4, 7, 3, 2, 0, 4, 8, 12

14 The number of runs scored by a softball team over the weekend are listed below. Find the median of these scores:

4, 7, 3, 2, 0, 4, 8, 12

5 A restaurant wanted to figure out which day to have more employees working so they surveyed how many customers they had on the weekends for one month. According to the data which day should they have more employees working?
Friday: 234, 186, 245, 309
Saturday: 375, 112, 280, 200
Sunday: 190, 235, 375, 160

7.SP.4

6 Movie Machine and Cinema 5 each say they have more customers than the other. They gathered data for one week:
Movie Machine: 200, 147, 345, 194, 280, 465, 540
Cinema 5: 380, 175, 245, 400, 330, 310, 495

Which movie theatre has on average more customers come to their theatre?

7.SP.4

7 Movie Machine and Cinema 5 each say they have more customers than the other. They gathered data for one week:
Movie Machine: 200, 147, 345, 194, 280, 465, 540

Which measure of center would you use if you owned the Movie Machine?

7.SP.4

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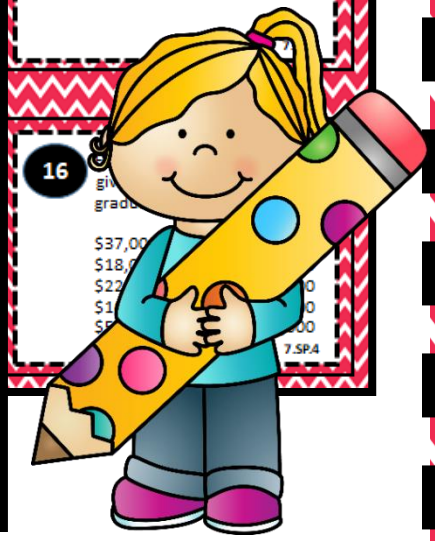
Which measure of center would you use if you owned Cinema 5?

7.SP.4

16



Created by:
Math in the Midwest

7.SP.4

Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations.

1

True or False

Measures of center provided a summary about the data.

7.SP.4

2

True or False

Variability describes how spread out a data set is.

7.SP.4

3

Find the following information on the data set:

12, 18, 14, 16, 13, 12, 4, 6

Mean:

Median:

Mode:

7.SP.4

4

Find the following information on the data set:

12, 18, 14, 16, 13, 12, 4, 6

Q1:

IQR:

Q3:

Range:

7.SP.4

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Which movie theatre has the highest range of customers?

7.SP.4

10

Ten words were randomly selected from a fourth grade social studies book. The following list shows the number of letters in each of the ten words:

4, 6, 5, 7, 9, 2, 1, 5, 10, 4

Ten words were randomly selected from a seventh grade social studies book. The following list shows the number of letters in each of the ten words:

5, 3, 8, 12, 8, 6, 8, 11, 7, 2

What is the mean word length for both books?

7.SP.4

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What is the mean absolute deviation length of words in both books?

7.SP.4

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How do the word lengths compare between the seventh-grade and the fourth-grade textbook?

7.SP.4

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7.SP.4

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7.SP.4

15

Find the range of the following given salaries of students that graduated in the Class of 2018.

$37,000	$42,000
$18,000	$30,500
$22,000	$29,800
$16,000	$59,000
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7.SP.4

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7.SP.4

17

Find the mean of the first four multiples of 5.

7.SP.4

18

If the following data set has a range of 12 what number would have to be x?

12 4 5 7 8 13 x

7.SP.4

19

Look at the data set below:

5, 12, 16, 18, 20, 19

Would the mean increase or decrease if the number 17 was added?

7.SP.4

20

Look at the data set below:

12, 8, 6, 13, 15, y

If the median is 12.5 which of the following numbers could be y?

A. 12.5
B. 16
C. 13

7.SP.4

21

7.SP.4

22

7.SP.4

23

7.SP.4

24

7.SP.4

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7.SP.4

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7.SP.4

21

7.SP.4

22

7.SP.4

23

7.SP.4

24

7.SP.4

Name _____ Hour _____

7.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	True
2	True
3	Mode – None Mean – 11.9 Median – 12.5
4	Q1 – 9 IQR - 6 Q3 – 15 Range – 14
5	Friday
6	Cinema 5
7	Mean
8	Mean
9	Movie Machine
10	4^{th} – 5.3 words 7^{th} – 7 words

Number	Answer
11	4^{th} – 2.16 7^{th} – 2.1
12	Answers will vary
13	5 runs
14	4 runs
15	$43,000
16	$32,830
17	12.5
18	16
19	Increase
20	All of them: A, B, or C

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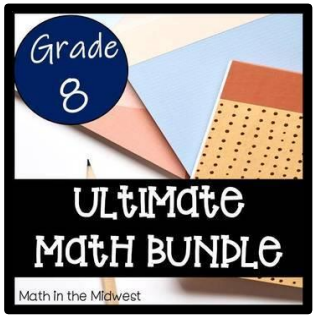

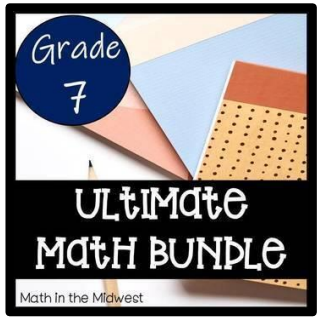

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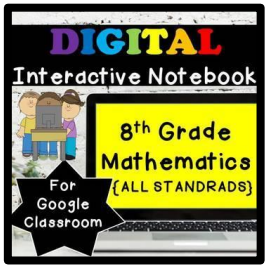

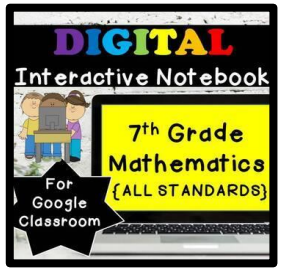

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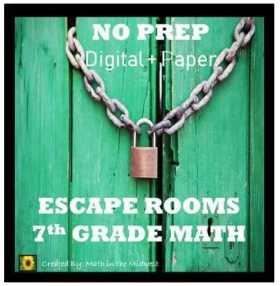

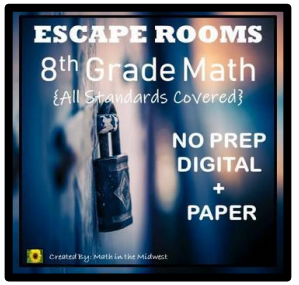

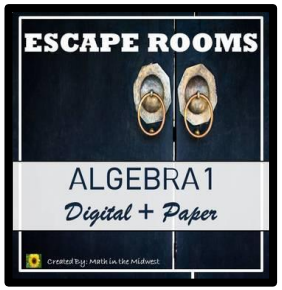

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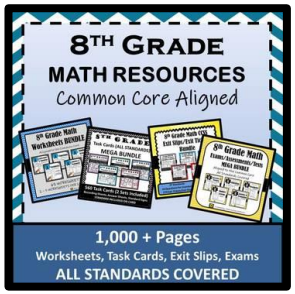

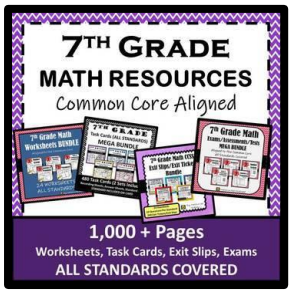

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