

Statistics & Probability

Task Cards 7.SP.3

20 Task Cards, Recording Sheet, Answer Sheet

7.SP.3

Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability.

1

True or False

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

7.SP.3

2

True or False

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

7.SP.3

3

The height of players in inches for a basketball team is:
65, 71, 83, 85, 80, 78, 77, 76

The height of players in inches for a soccer team is:
65, 62, 72, 70, 68, 69, 70, 71, 66, 68, 70

What is the mean height difference between the two sports?

7.SP.3

4

The height of players in inches for a basketball team is:
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What is the mean absolute deviation for the basketball team?

7.SP.3

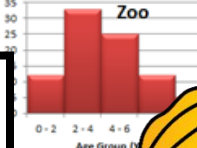
9

Examine the histograms below and figure out which of the following answers are true regarding the histograms. They show Mrs. Megan's students test scores in 1st and 2nd hour.

1st Hour

10

Examine the histograms below and figure out which of the following answers are true regarding the histograms. They show the attendance of children that went to the zoo or water park on a certain day.



More older children
More children big
zoo.
More children
to the zoo.



Created by:
Math in the Midwest

7.SP.3

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The height of players in inches
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65, 62, 72, 70, 68, 69, 70, 71,
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What is the mean absolute
deviation for the soccer team?

7.SP.3

6

Using the information you
collected in the following task
cards over the basketball and
soccer team. Which team varies
more in height, soccer or
basketball?

7.SP.3

7

The following show math test
scores in Mrs. V's 7th grade
class.

Find the mean of the following
data set:

87, 72, 54, 86, 91, 100, 94, 84,
86, 89, 74, 73, 65

7.SP.3

8

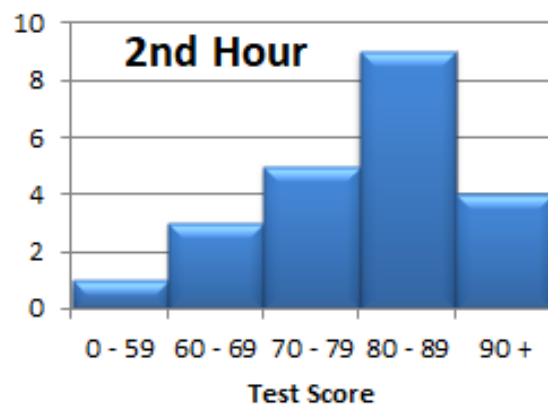
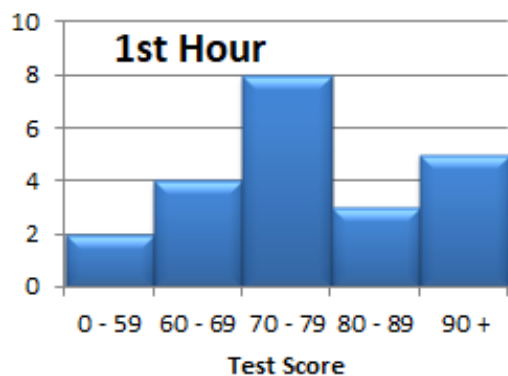
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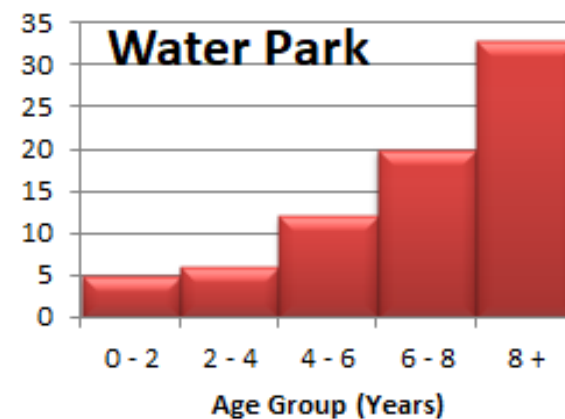
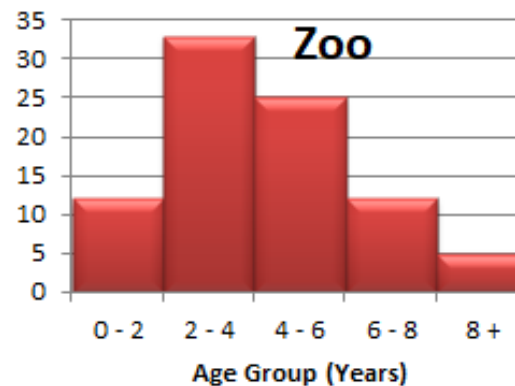


- A. Students in 2nd hour had a higher average on the test than students in 1st hour
- B. More students in 1st hour failed the test.
- C. The majority of students in both classes received between a 70 - 79.

7.SP.3

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Examine the histograms below and figure out which of the following answers are true regarding the histograms. They show the attendance of children that went to the zoo or water park on a certain day.



- A. More older children prefer to go to the zoo
- B. More children birth to age 2 went to the zoo.
- C. More children went to the water park than to the zoo.

7.SP.3

11

True or False

The larger the Mean Absolute Deviation is means that the data set is closer together.

7.SP.3

12

True or False

To find the Mean Absolute Deviation you first need to find the mean.

7.SP.3

13

True or False

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7.SP.3

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True or False

The absolute value is a number's distance from zero.

7.SP.3

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Fill in the blanks:

The _____ tells
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7.SP.3

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7.SP.3

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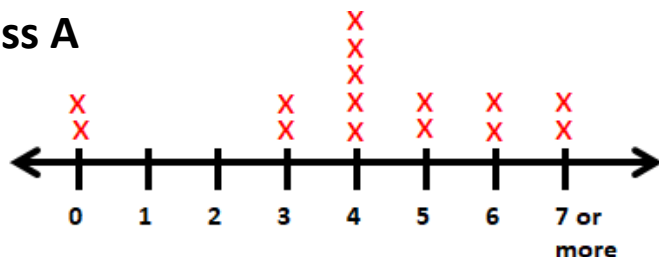
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7.SP.3

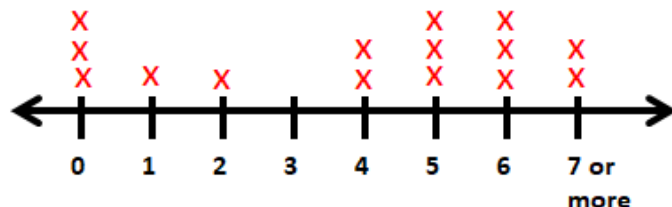
19

The students in two seventh grade classes were asked, "How many hours a day do you spend on your cell phone?" The data was collected and a dot plot was created for each class. Answer the following questions below:

Class A



Class B



- What is the IQR for Class A?
- What is the IQR for Class B?
- Using the IQR of each class, compare the variabilities of the two classes.

7.SP.3

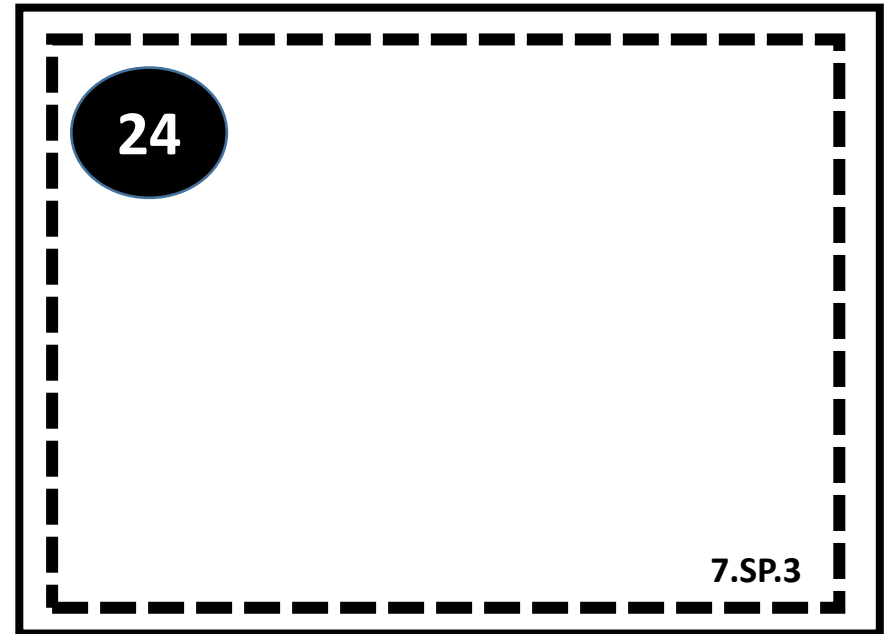
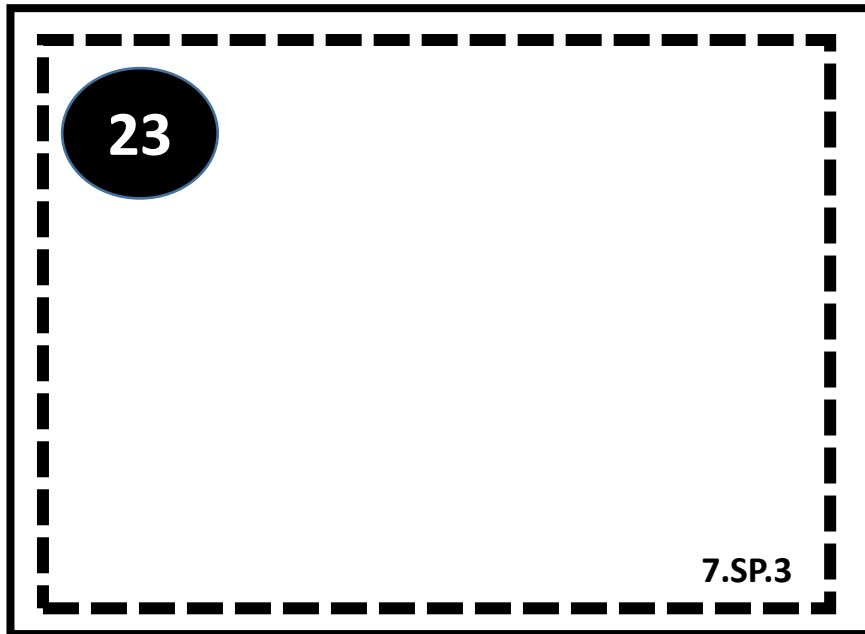
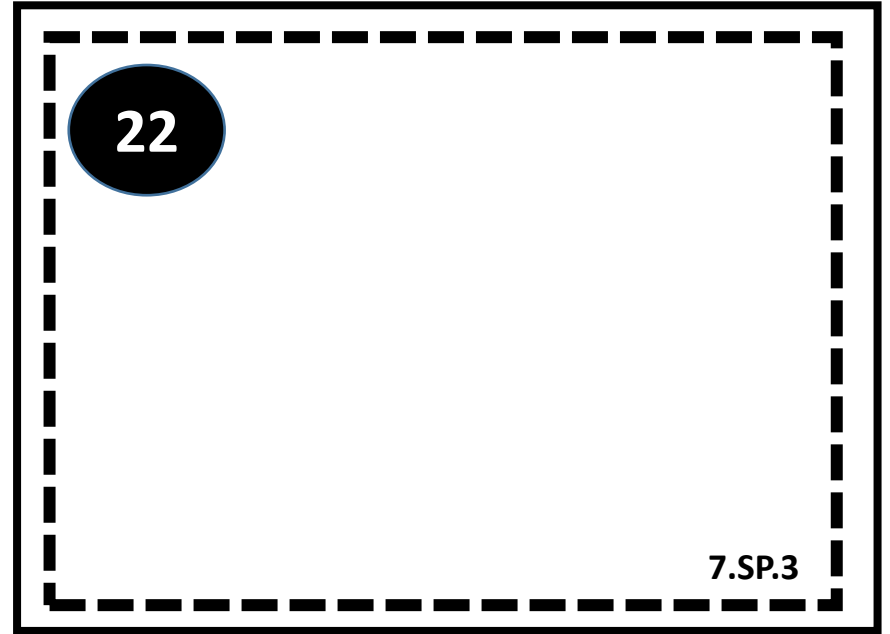
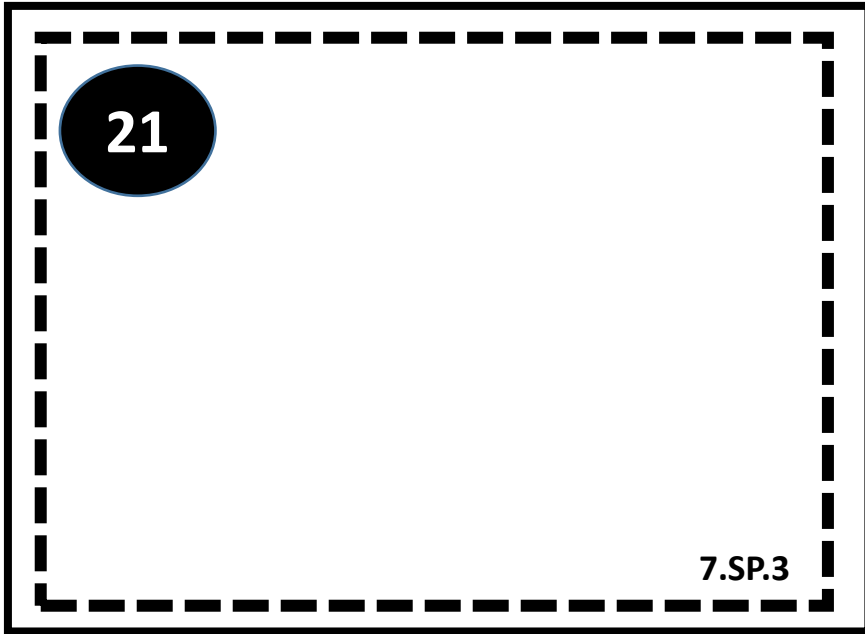
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The mean height of the basketball players at Washington High School is 72 inches with a mean absolute deviation of 4 inches. The mean height of the basketball players at Wells High School is 74 inches with a mean absolute deviation of 3 inches.

Answer the following questions:

- By how many inches is the mean height of the basketball players on Well's team greater than the mean height of the players on Washington's team?
- The majority of players on Washington's team are what range of heights?
- The majority of players on Well's team are what range of heights?

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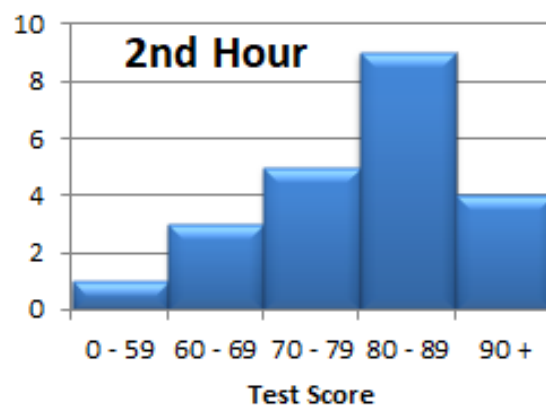
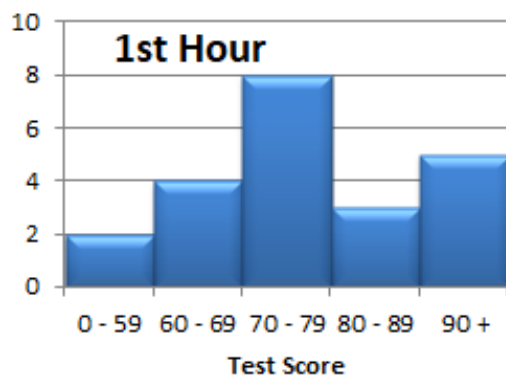
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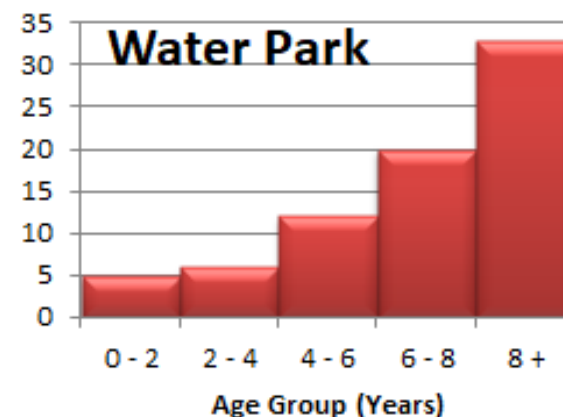
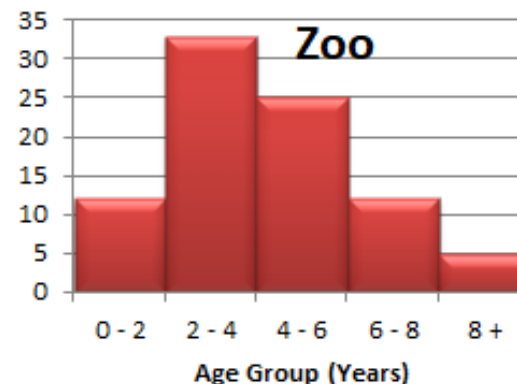


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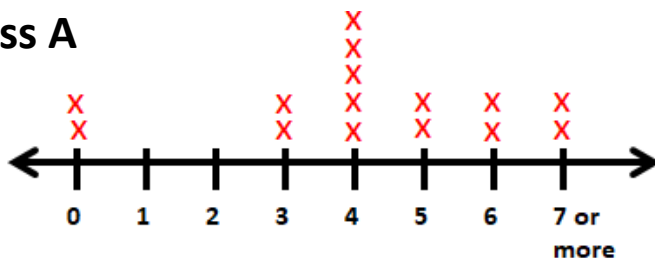
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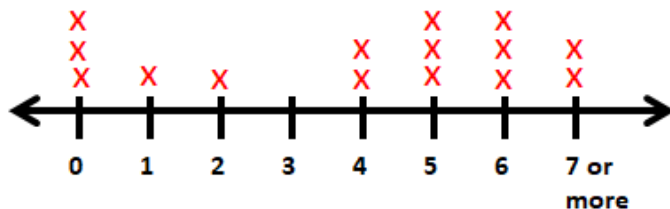
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7.SP.3

21

7.SP.3

22

7.SP.3

23

7.SP.3

24

7.SP.3

Name _____

Hour _____

7.SP.3 Recording Sheet

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

Name _____

Hour _____

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

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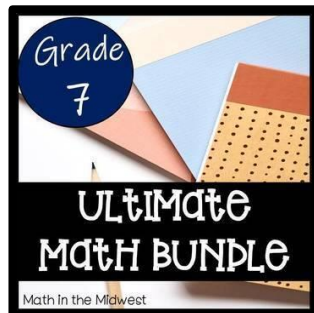
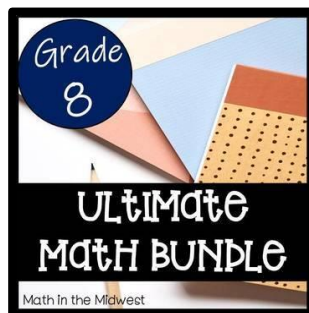
Answer Key

Number	Answer
1	True
2	False
3	8.61 inches
4	MAD b-ball: 4.66
5	MAD soccer: 2.25
6	Basketball
7	81.2%
8	10.4
9	A & B
10	B

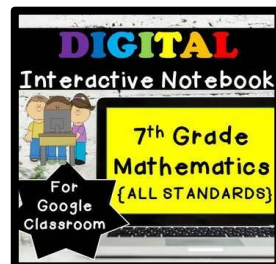
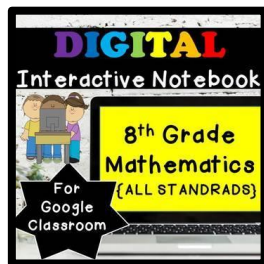
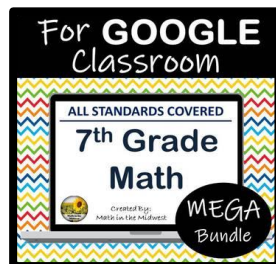
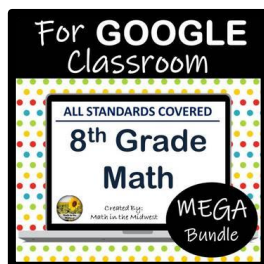
Number	Answer
11	False
12	True
13	False
14	True
15	IQR 50%
16	Median
17	Mean divide numbers
18	Average data mean
19	Class A: 3 Class B: 5 Answers will vary
20	A: 1 inch B: 68 – 76 inches C: 71 – 77 inches

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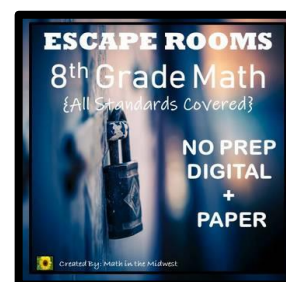
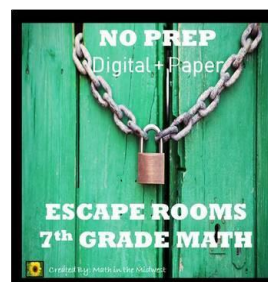
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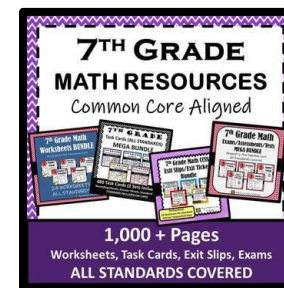
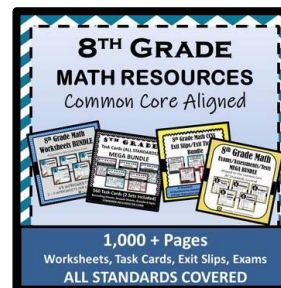
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