Unit:	Data	&	Statistics
Quiz			

Name .	
Date _	Pd

QUIZ: DATA & STATISTICS

Use the table below to answer questions 1-2.

	6 TH GRADE	7 [™] GRADE	8 TH GRADE
A-HONOR ROLL	15	11	14

- 1. A sample of students is taken from the school's A honor roll. The school estimates that there are 360 students on the A honor roll. Using this sample, how many students on the A honor roll are 8^{th} graders?
- 2. If there are 360 students in the school on the A honor roll, how many students are 7^{th} graders?

	Answers	
1.		_
10.		

Answer the following questions.

- 3. A new restaurant in town is surveying residents to determine how much they typically pay for a meal out. Which of the following best describes a random sample?
- A. They go door-to-door in a nearby neighborhood.
- B. They randomly select 50 residents of a local nursing home.
- C. They call 200 randomly selected town residents
- D. They ask patrons if the price was reasonable.

- 4. The elementary school cafeteria is considering changing the menu from pizza to sub sandwiches. Which of the following best describes a random sample?
- A. All the students in Mrs. Johnson's class are surveyed.
- B. Twenty randomly selected fifth graders are surveyed.
- C. Fifty randomly selected staff members are surveyed.
- D. Fifty students' names are drawn from a hat.
- 5. A streaming service randomly selected 100 of its subscribers and asked them how many hours of shows they watch per week. Of those surveyed, 45 watch more than 10 hours per week. Based on the data, if the company has 2,500 subscribers, then how many watch more than 10 hours per week?
- A. 400
- B. 1,125
- C. 1,400
- D. 800

Answer the questions below. Be sure to show your work.

6. The table below represents the number of donut holes per box at Damon's Donuts. What is the median number of donut holes?

# OF DONUT HOLES	22	23	24	25
FREQUENCY	1	2	3	2

- A. 23
- B. 23.75
- C. 24
- D. 24.5

7. The list below shows the allowance earned by eight of the students in Ms. Tomas's class. What is the mean allowance earned in Ms. Tomas's class?

\$7, \$12, \$8.50, \$10, \$7, \$8, \$10.50, \$11

- 8. The mean absolute deviation is 0.1. What conclusions can be drawn?
- A. The data points are close to the median.
- B. The data points are far from the median.
- C. The data points are far from the mean.
- D. The data points are close to the mean.

9. Determine the IQR of the data below.

11, 13, 16, 17, 8, 10, 14, 14, 17, 14

- A. 11
- B. 16
- C. 5
- D. 14
- 10. The average test scores for Mrs. Green's history class has a mean absolute deviation of 12. What conclusion can you make about the average test scores for Mrs. Green's history
- class?
- A. The average of the test scores in Mrs. Green's history class is a 12.
- B. The mean absolute deviation is high, so the test scores must all be high.
- C. The mean absolute deviation of 12 means that the test scores were very spread out.
- D. The mean absolute deviation of 12 means that the test scores were very close together.

Unit: Data & Statistics Quiz

Name .	
Date _	Pd

QUIZ: DATA & STATISTICS

Use the table below to answer questions 1-2.

	6 TH GRADE	7 [™] GRADE	8 TH GRADE
A-HONOR ROLL	15	11	14

- 1. A sample of students is taken from the school's A honor roll. The school estimates that there are 360 students on the A honor roll. Using this sample, how many students on the A honor roll are 8^{th} graders?
- 2. If there are 360 students in the school on the A honor roll, how many students are 7^{th} graders?

	Answers	
1.	126	_
	qq	
3.	С	
4.	D	
5.	В	
6.	С	
	\$9.25	
	D	
	С	
	C	

Answer the following questions.

- 3. A new restaurant in town is surveying residents to determine how much they typically pay for a meal out. Which of the following best describes a random sample?
- A. They go door-to-door in a nearby neighborhood.
- B. They randomly select 50 residents of a local nursing home.
- C. They call 200 randomly selected town residents.
- D. They ask patrons if the price was reasonable.

- 4. The elementary school cafeteria is considering changing the menu from pizza to sub sandwiches. Which of the following best describes a random sample?
- A. All the students in Mrs. Johnson's class are surveyed.
- B. Twenty randomly selected fifth graders are surveyed.
- C. Fifty randomly selected staff members are surveyed.
- D. Fifty students' names are drawn from a hat.
- 5. A streaming service randomly selected 100 of its subscribers and asked them how many hours of shows they watch per week. Of those surveyed, 45 watch more than 10 hours per week. Based on the data, if the company has 2,500 subscribers, then how many watch more than 10 hours per week?
- A. 400
- B. 1,125
- C. 1,400
- D. 800

Answer the questions below. Be sure to show your work.

6. The table below represents the number of donut holes per box at Damon's Donuts. What is the median number of donut holes?

# OF DONUT HOLES	22	23	24	25
FREQUENCY	1	2	3	2

- A. 23
- B. 23.75
- C. 24
- D. 24.5

7. The list below shows the allowance earned by eight of the students in Ms. Tomas's class. What is the mean allowance earned in Ms. Tomas's class?

\$7, \$12, \$8.50, \$10, \$7, \$8, \$10.50, \$11

- 8. The mean absolute deviation is 0.1. What conclusions can be drawn?
- A. The data points are close to the median.
- B. The data points are far from the median.
- C. The data points are far from the mean.
- D. The data points are close to the mean.

9. Determine the IQR of the data below.

11, 13, 16, 17, 8, 10, 14, 14, 17, 14

- A. 11
- B. 16
- C. 5
- D. 14
- 10. The average test scores for Mrs. Green's history class has a mean absolute deviation of 12. What conclusion can you make about the average test scores for Mrs. Green's history
- class?
- A. The average of the test scores in Mrs. Green's history class is a 12.
- B. The mean absolute deviation is high, so the test scores must all be high.
- C. The mean absolute deviation of 12 means that the test scores were very spread out.
- D. The mean absolute deviation of 12 means that the test scores were very close together.