



Name: \_\_\_\_\_  
Grade & Section: \_\_\_\_\_

Date: \_\_\_\_\_  
Score: \_\_\_\_\_

Mathematics 10  
Fourth Diagnostic Test  
S.Y. 2018–2019

Write the letter corresponding to the correct answer in the blank.  
You may use the back of the paper for your computations.

- \_\_\_\_\_ 1. The median score is also the \_\_\_\_\_.  
A. 75<sup>th</sup> percentile                      B. 5<sup>th</sup> decile                      C. 3<sup>rd</sup> decile                      D. 1<sup>st</sup> quartile
- \_\_\_\_\_ 2. When a distribution is divided into hundred equal parts, each score point that describes the distribution is called a \_\_\_\_\_.  
A. Decile                      B. Median                      C. Percentile                      D. Quartile
- \_\_\_\_\_ 3. The lower quartile is equal to \_\_\_\_\_.  
A. 50<sup>th</sup> percentile                      B. 25<sup>th</sup> percentile                      C. 2<sup>nd</sup> decile                      D. 3<sup>rd</sup> quartile
- \_\_\_\_\_ 4. In the set of scores 14, 17, 10, 22, 19, 24, 8, 12, and 19, the median score is \_\_\_\_\_.  
A. 17                      B. 16                      C. 15                      D. 13
- \_\_\_\_\_ 5. In a 70-item test, Melody got a score of 50 which is the third quartile. This means that:  
A. she got the highest score.  
B. her score is higher than 25% of her classmates.  
C. she surpassed 75% of her classmates.  
D. seventy-five percent of the class did not pass the test.
- \_\_\_\_\_ 6. The first quartile of the ages of 250 fourth year students is 16 years old. Which of the following statements is true?  
A. Most of the students are below 16 years old.  
B. Seventy-five percent of the students are 16 years old and above.  
C. Twenty-five percent of the students are 16 years old.  
D. One hundred fifty students are younger than 16 years.
- \_\_\_\_\_ 7. In a 100-item test, the passing mark is the 3<sup>rd</sup> quartile. What does it imply?  
A. The students should answer at least 75 items correctly to pass the test.  
B. The students should answer at least 50 items correctly to pass the test.  
C. The students should surpass 75% of their classmates to pass the test.  
D. The students should surpass 50% of their classmates to pass the test.

For items 8 to 20, refer to table A below.

Table A		
Scores	Frequency	Cumulative Frequency
46 – 50	4	50
41 – 45	8	46
36 – 40	11	38
31 – 35	9	27
26 – 30	12	18
21 – 25	6	6

- \_\_\_\_\_ 8. What is the size of the class interval of the frequency distribution table?

- A. 3

B. 4

C. 5

D. 6
- \_\_\_\_\_ 9. What is the total frequency?
- A. 27

B. 38

C. 46

D. 50
- \_\_\_\_\_ 10. Which class interval is the  $Q_1$  class?
- A. 21–25

B. 26–30

C. 31-35

D. 36–40
- \_\_\_\_\_ 11. Which class interval is the  $Q_3$  class?
- A. 21–25

B. 26–30

C. 31-35

D. 36–40
- \_\_\_\_\_ 12. What cumulative frequency should be used in solving for the 35<sup>th</sup> percentile?
- A. 38

B. 27

C. 18

D. 6
- \_\_\_\_\_ 13. What cumulative frequency should be used in solving for the 8<sup>th</sup> decile?
- A. 6

B. 18

C. 27

D. 38
- \_\_\_\_\_ 14. In solving for the 60<sup>th</sup> percentile, the lower boundary is \_\_\_\_\_.
- A. 30.5

B. 35.5

C. 40.5

D. 45.5
- \_\_\_\_\_ 15. In solving for the 9<sup>th</sup> decile, the lower boundary is \_\_\_\_\_.
- A. 25.5

B. 30.5

C. 35.5

D. 40.5
- \_\_\_\_\_ 16. The 45<sup>th</sup> percentile is \_\_\_\_\_.
- A. 49

B. 360

C. 720

D. 5040
- \_\_\_\_\_ 17. What is the frequency of the  $P_{35}$  class?
- A. 8

B. 9

C. 11

D. 12
- \_\_\_\_\_ 18. What is the frequency of the  $D_6$  class?
- A. 8

B. 9

C. 11

D. 12
- \_\_\_\_\_ 19. The 1<sup>st</sup> quartile is \_\_\_\_\_.
- A. 26.2

B. 28.2

C. 30.2

D. 32.2
- \_\_\_\_\_ 20. The 7<sup>th</sup> decile is \_\_\_\_\_.
- A. 36.1

B. 37.1

C. 38.1

D. 39.1