

Mean, Median, Mode / Patterns



19. Ms. Lewis plans to drive 900 miles to her vacation destination, driving an average of 50 miles per hour. How many miles per hour faster must she average, while driving, to reduce her total driving time by 3 hours?
- A. 5
 - B. 8
 - C. 10
 - D. 15
 - E. 18
16. What is the tenth term of the arithmetic sequence 3, 8, 13, ...?
- F. 18
 - G. 43
 - H. 48
 - J. 53
 - K. None of these
3. On the first day of school, Mr. Vilani gave his third-grade students 5 new words to spell. On each day of school after that, he gave the students 3 new words to spell. In the first 20 days of school, how many new words had he given the students to spell?
- A. 28
 - B. 62
 - C. 65
 - D. 68
 - E. 152
7. To determine a student's overall test score for the semester, Ms. Lopez throws out the lowest test score and takes the average of the remaining test scores. Victor earned the following test scores in Ms. Lopez's class this semester: 62, 78, 83, 84, and 93. What overall test score did Victor earn in Ms. Lopez's class this semester?
- A. 67.6
 - B. 80.0
 - C. 83.0
 - D. 83.5
 - E. 84.5

31. Which of the following numbers could NOT be the base of an exponential function?

- A. $\frac{1}{2}$
- B. 1
- C. 2
- D. 3
- E. $\sqrt{5}$

44. Which of the following statements is false?

- F. Every whole number is an integer.
- G. Some rational numbers are natural numbers.
- H. The set of integers is a subset of the set of real numbers.
- J. $\sqrt{49}$ is a rational number.
- K. None of these statements is false.

45. Which of the following is NOT a rational number?

- A. 0.5
- B. $0.\bar{5}$
- C. $\sqrt{48}$
- D. $\sqrt{49}$
- E. 15%

52. Which of the following is NOT a real number?

- F. $\frac{0}{5}$
- G. $3 - 9$
- H. $\sqrt{25}$
- J. $-\sqrt{7}$
- K. $\sqrt{-4}$

55. Which of the following is NOT equal to the others?

- A. 0.015
- B. 1.5×10^{-2}
- C. 1.5%
- D. $\frac{3}{200}$
- E. $(0.3)(0.005)$

Number
Theory