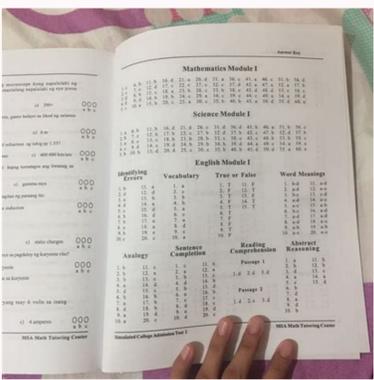


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Open



A college entrance exam company determined that a score of 25 on the mathematics portion of the exam suggests that a student is ready for college-level mathematics. To achieve this goal, the company recommends that students take a core curriculum of math courses in high school. Suppose a random sample of 200 students who completed this core set of courses results in a mean score of 25.7 on the college entrance exam with a standard deviation of 3.3. Do these results suggest that students who complete the core curriculum are ready for college-level mathematics? That are they scoring above 25 on the math portion of the exam? Complete parts a) through d) below.

Click the icon to view the table of critical t-values.

Use the classical approach at the $\alpha = 0.05$ level of significance to find the critical value and test the hypotheses. Identify the test statistic.

$t_0 = \square$ (Round to two decimal places as needed.)

Identify the critical value. Select the correct choice below and fill in the answer box within your choice. (Round to two decimal places as needed.)

- A. $t_{\alpha/2} = \square$
- B. $t_{\alpha} = \square$

PSHS BATCH 2012 MATH REVIEWER 2nd Ed

50 items
60 minutes

DIRECTIONS Choose the best answer. Write your answers on a separate answer sheet.

1. In the sequence 4, 11, 18, ..., the first term is 4 and each term after the first is 7 more than the previous term. What is the 12th term of the sequence?

- (A) 77
- (B) 81
- (C) 84
- (D) 86
- (E) 92

2. If $(x - 2)^2 = 49$, then x could be

- (A) -9
- (B) -7
- (C) 2
- (D) 5
- (E) 9

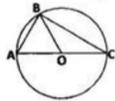
3. The average of t and y is 15 and the average of w and x is 15. What is the average of t, w, x and y?

- (A) 7.5
- (B) 15
- (C) 22.5
- (D) 30
- (E) 60

4. If the statement "All of Kay's brothers can swim" is true, which of the following must also be true?

- (A) If Fred cannot swim, then he is not Kay's brother.
- (B) If Dave can swim, then he is not Kay's brother.
- (C) If Walt can swim, then he is Kay's brother.
- (D) If Pete is Kay's brother, then he cannot swim.
- (E) If Mark is not Kay's brother, then he cannot swim.

5. In the figure below, triangle ABC is inscribed in circle with center O and diameter AC. If $AB = AO$, what is the degree measure of what is the degree measure of $\angle ABO$?

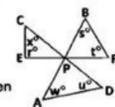


- (A) 15°
- (B) 30°
- (C) 45°
- (D) 80°
- (E) 90°

6. Each of the following is equivalent to $\frac{a}{b}(bc + k)$ except

- (A) $a\left(\frac{c+k}{b}\right)$
- (B) $a\left(c + \frac{k}{b}\right)$
- (C) $\frac{a}{b}(k + bc)$
- (D) $ac + \frac{ak}{b}$
- (E) $\frac{abc + ak}{b}$

7. In the figure below, AB, CD and EF intersect at P. If $r = 90$, $s = 50$, $t = 60$, $u = 45$ and $w = 50$, what is the value of x?



- (A) 45
- (B) 50
- (C) 65
- (D) 75
- (E) insufficient given

I. GENERAL INFORMATION

1. Excessive use of force by policemen is popularly referred to as:
 - A. Police Brutality
 - B. Survival Tactics
 - C. Police Bodily Harm
 - D. High-Risk Encounters
 - E. Police Enforcement Electives
2. It is a surprise invasion of a building, a small-scale attack of limited territory:
 - A. Raid
 - B. Search
 - C. Casing
 - D. Arrest
 - E. Seizure
3. Which of the following defines Miranda Doctrine?
 - A. The suspect is required to give his statements.
 - B. The suspect is presumed guilty until proven innocent.
 - C. The suspect is presumed innocent until proven guilty.
 - D. The suspect has the burden of proving himself innocent.
 - E. The suspect is not allowed to talk unless he has sought legal advice.
4. Under provisions of Section 2, Article III of 1987 Philippine Constitution known as Bill of Rights, the authority to issue a warrant of arrest and search warrant lies on the:
 - A. Judge
 - B. Prosecutor
 - C. Investigator
 - D. Chief of Police
 - E. Solicitor General
5. If the accused cannot afford services of a counsel of his choice, the one who provides is the:
 - A. Judge
 - B. Police
 - C. Witness
 - D. Prosecutor
 - E. Parents/Guardian
6. Which of the statements below is not included in the Bill of Rights?
 - A. No person shall be compelled to be a witness against himself.
 - B. No person shall be imprisoned for debt for non-payment of a poll tax.
 - C. No person shall be held to answer for a criminal offense without due process of law.
 - D. No person shall be deprived of life, liberty, or property without due process of law, nor shall all are person be denied the equal protection of laws.
 - E. No persons shall be appointed as police officer or member of the PNP unless he is a Filipino citizen, not more than 30 years of age, and of sound mind and body.
7. Legally, the term "Criminal" refers to one who:
 - A. violates a law.
 - B. lives in the world of crime.
 - C. Commits an act injurious to the public.
 - D. is convicted by a competent court.
 - E. engages in act inimical to national security.
8. The imposition of Death Penalty shall be automatically reviewed by the:
 - A. Supreme Court
 - B. Regional Court
 - C. Court of Appeals
 - D. Metropolitan Trial Court
 - E. President of the Philippines
9. A police officer may invoke a legitimate self-defense when:
 - A. He is assaulted.
 - B. He is disarming a criminal.
 - C. He is frisking a criminal suspect.
 - D. He is arresting a wanted criminal.
 - E. A suspect plans to escape from police custody.
10. The renunciation of war as an instrument of national policy is one of the principles declares in the:
 - A. Law creating the PNP.
 - B. Fundamental law of the Philippines.
 - C. Law creating the National Security Council.
 - D. Law creating the Peace and Order Council.
 - E. Law establishing the Katarungang Pambarangay System.
11. One of the principles declared under the Philippine Constitution is that civilian authority is:
 - A. at par with the military.
 - B. subservient to the military.
 - C. more powerful than the church.
 - D. more influential than the church.
 - E. at all times, supreme over the military.
12. Enumerated below are primary functions of the police, except:
 - A. vice control
 - B. crime prevention.
 - C. criminal investigation.
 - D. traffic enforcement and regulation.
 - E. execution of court orders and search warrant.
13. The following are commissions in the Philippine Bureaucracy. Which one of them is NOT an independent constitutional commission?
 - A. Commission on Audit
 - B. Commission on Elections
 - C. Civil Service Commission
 - D. Commission on Human Rights
 - E. Commission on Higher Education

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