

Continue Practice Exam Test Questions Part
10 of the Series

Choose the letter of the best answer in each questions.

451. Determine x so that $2x + 1$, $x^2 + x + 1$, $3x^2 - 3x + 3$ are consecutive terms of an arithmetic progression.

- a. 3
- b. 2
- c. 5
- d. 4

452. An equipment costs P50,000.00 and depreciates 20% of the original costs during the first year, 16% during the second year, 12% during the third year, and so on, for 5 years. What is the value at the end of 5 years?

- a. 15,000
- b. 25,000
- c. 30,000
- d. 20,000

453. Find the sum of the first 100 positive integers that is exactly divisible by 7.

- a. 35,350
- b. 25,053
- c. 53,350
- d. 25,536

454. Find the 50th term of a geometric progression if the 20th term is 1200 and the 30th term is also 1200.

- a. 1200
- b. 2400
- c. 1400

d. 4100

455. A woman started a chain letter by writing to four friends and requesting each to copy the letter and send it to four other friends. If the chain was unbroken until the 5th set of letters was mailed, how much was spent for postage at P8.00 per letter?

- a. 16,219
- b. 10,912
- c. 21,835
- d. 13,291

456. A soccer ball is dropped from height of 6 meters. On each rebound it rises $\frac{2}{3}$ of the height from which it last fell. What distance has it traveled at the instant it strikes the ground for the 7th time?

- a. 27.86 m
- b. 19.86 m
- c. 20.87 m
- d. 24.27 m

457. The arithmetic mean of two numbers is 4, and their harmonic mean is $\frac{15}{4}$. Find the numbers.

- a. 3 & 5
- b. 1 & 7
- c. 2 & 6
- d. 0 & 8

458. Find the real values of x and y satisfying the given equation: $(2x + 3y) + i(3x - 5y) = 8 - i7$.

- a. $x = 1, y = -2$
- b. $x = -2, y = -1$

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