

## GMAT Quant Practice test

1. Last month a certain music club offered a discount to preferred customers. After the first compact disc purchased, preferred customers paid \$3.99 for each additional compact disc purchased. If a preferred customer purchased a total of 6 compact discs and paid \$15.95 for the first compact disc, then the dollar amount that the customer paid for the 6 compact discs is equivalent to which of the following?
  - (A)  $5(4.00) + 15.90$
  - (B)  $5(4.00) + 15.95$
  - (C)  $5(4.00) + 16.00$
  - (D)  $5(4.00 - 0.01) + 15.90$
  - (E)  $5(4.00 - 0.05) + 15.95$
  
2. The average (arithmetic mean) of the integers from 200 to 400, inclusive, is how much greater than the average of the integers from 50 to 100, inclusive?
  - (A) 150
  - (B) 175
  - (C) 200
  - (D) 225
  - (E) 300

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Among a group of 2,500 people, 35 percent invest in municipal bonds, 18 percent invest in oil stocks, and 7 percent invest in both municipal bonds and oil stocks. If 1 person is to be randomly selected from the 2,500 people, what is the probability that the person selected will be one who invests in municipal bonds but NOT in oil stocks?

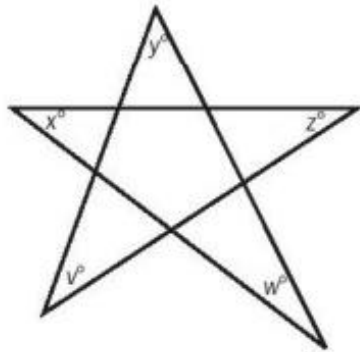
- (A)  $\frac{9}{50}$
- (B)  $\frac{7}{25}$
- (C)  $\frac{7}{20}$
- (D)  $\frac{21}{50}$
- (E)  $\frac{27}{50}$

A closed cylindrical tank contains  $36\pi$  cubic feet of water and is filled to half its capacity. When the tank is placed upright on its circular base on level ground, the height of the water in the tank is 4 feet. When the tank is placed on its side on level ground, what is the height, in feet, of the surface of the water above the ground?

- (A) 2
  - (B) 3
  - (C) 4
  - (D) 6
  - (E) 9
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A researcher computed the mean, the median, and the standard deviation for a set of performance scores. If 5 were to be added to each score, which of these three statistics would change?

- (A) The mean only
- (B) The median only
- (C) The standard deviation only
- (D) The mean and the median
- (E) The mean and the standard deviation



If  $\sqrt{3-2x} = \sqrt{2x+1}$ , then  $4x^2 =$

- (A) 1
- (B) 4
- (C)  $2 - 2x$
- (D)  $4x - 2$
- (E)  $6x - 1$

If  $n = \sqrt{\frac{16}{81}}$ , what is the value of  $\sqrt{n}$ ?

- (A)  $\frac{1}{9}$
- (B)  $\frac{1}{4}$
- (C)  $\frac{4}{9}$
- (D)  $\frac{2}{3}$
- (E)  $\frac{9}{2}$