

TRUNG TÂM ĐÀO TẠO LẬP TRÌNH VIÊN QUỐC TẾ
BACHKHOA- APTECH

GMAT TEST

SECTION 1 - PROBLEM SOLVING

Time - 25 minutes, 15 Questions

Numbers: All numbers used are real numbers

Question 1

It takes Eric 20 minutes to inspect a car. John only needs 18 minutes to inspect a car. If they both start inspecting cars at 8:00 A.M., what is the first time they will finish inspecting a car at the same time?

- (A) 9:30 A.M.
- (B) 9:42 A.M.
- (C) 10:00 A.M.
- (D) 11:00 A.M.
- (E) 2:00 P.M.

Question 2

If k is an integer and 0.0010101×10^k is greater than 1,000, what is the least possible value of k ?

- (A) 2
- (B) 3
- (C) 4
- (D) 5
- (E) 6

Question 3

Members of a social club met to address 280 newsletters. If they addressed $\frac{1}{4}$ of the newsletters during the first hour and $\frac{2}{5}$ of the remaining newsletters during the second hour, how many newsletters did they address during the second hour?

- A) 28 B) 42 C) 63 D) 84 E) 112

Question 4

If a , b , and c are consecutive positive integers and $a < b < c$, which of the following must be true?

- I. $c - a = 2$
- II. abc is an even integer
- III. $\frac{a+b+c}{3}$ is an integer

- A) I only
- B) II only
- C) I and II only
- D) II and III only
- E) I, II, and III

Question 5

A committee is composed of w women and m men. If 3 women and 2 men are added to the committee, and if one person is selected at random from the enlarged committee, then the probability that a woman is selected can be represented by

- A) $\frac{w}{m}$
- B) $\frac{w}{w+m}$
- C) $\frac{w+3}{m+2}$
- D) $\frac{w+3}{w+m+3}$
- E) $\frac{w+3}{w+m+5}$

Question 6

Jim planned to complete a certain task on Wednesday, September 15, but because of illness the completion date was postponed 48 days. On which day of the week was the task completed?

- A) Monday
- B) Tuesday
- C) Wednesday
- D) Thursday
- E) Friday

Question 7

If $8^{2x+3} = 2^{3x+6}$, then $x =$

- A) -3
- B) -1
- C) 0
- D) 1
- E) 3

Question 8

If $x + 5y = 16$ and $x = -3y$, then $y =$

- A) -24
- B) -8
- C) -2

- D) 2
E) 8

Question 9

If Henry Ford's Red River factory turns out 10 Model T's in 18 minutes, approximately how many could it make in one hour?

- A) 27
B) 28
C) 30
D) 33
E) 180

Question 10

The positive integer n is divisible by 25. If \sqrt{n} is greater than 25, which of the following could be the value of $\frac{n}{25}$?

- (A) 22
(B) 23
(C) 24
(D) 25
(E) 26

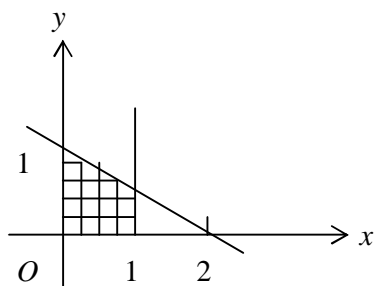
Question 11

A machine costs m dollars per day to maintain and n cents for each unit it produces. If the machine is operated 7 days a week and produces r units in a week, which of the following is the total cost, in dollars, of operating the machine for a week?

- (A) $7m + 100nr$
(B) $\frac{700m + nr}{100}$
(C) $m + nr$
(D) $\frac{7m + 100nr}{100}$

(E) $700mnr$

Question 12



In the rectangular coordinate system above, the shaded region is bounded by straight

lines. Which of the following is NOT an equation of one of the boundary lines?

- A) $x = 0$
B) $y = 0$
C) $x = 1$
D) $x - y = 0$
E) $x + 2y = 2$

Question 13

If 3 pounds of dried apricots that cost x dollars per pound are mixed with 2 pounds of prunes that cost y dollars per pound, what is the cost, in dollars, per pound of the mixture?

- A) $\frac{3x + 2y}{5}$
B) $\frac{3x + 2y}{x + y}$
C) $\frac{3x + 2y}{xy}$
D) $5(3x + 2y)$
E) $3x + 2y$

Question 14

Last year Mrs. Long received \$160 in dividends on her shares of Company X stock, all of which she had held for the entire year. If she had had 12 more shares of the stock last year, she would have received \$15 more in total annual dividends. How many shares of the stock did she have last year?

- (A) 128
(B) 140
(C) 172
(D) 175
(E) 200

Question 15

Ben and Ann are among 7 contestants from which 4 semifinalists are to be selected. Of the different possible selections, how many contain neither Ben nor Ann?

- (A) 5
(B) 6
(C) 7
(D) 14
(E) 21

PROBLEM SOLVING

1. D

2. E

3. D

4. E

5. E

6. B

7. B

8. E

9. D

10. E

11. B

12. D

13. A

14. A

15. A