

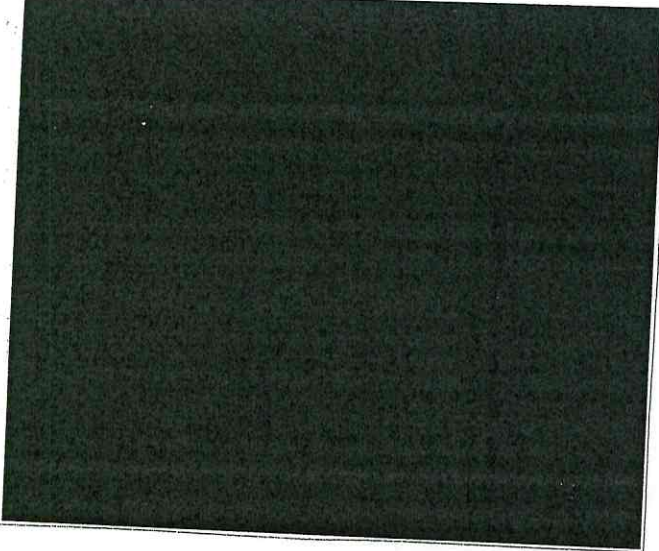
1. Last month a certain music club offered a discount to preferred customers. After the first compact disc purchased, preferred customers paid \$3.99 for each additional compact disc purchased. If a preferred customer purchased a total of 6 compact discs and paid \$15.95 for the first compact disc, then the dollar amount that the customer paid for the 6 compact discs is equivalent to which of the following?
  - a.  $5 \times (4,00) + 15,90$
  - b.  $5 \times (4,00) + 15,95$
  - c.  $5 \times (4,00) + 16,00$
  - d.  $5 \times (4,00-0,01) + 15,90$
2. What is the 25th digit to the right of the decimal point in the decimal form of  $6/11$ ?
  - a. 3
  - b. 4
  - c. 5
  - d. 6
3. A project scheduled to be carried out over a single fiscal year has a budget of \$12.600, divided into 12 equal monthly allocations. At the end of the fourth month of that fiscal year, the total amount actually spent on the project was \$4.580. By how much was the project over its budget?
  - a. \$ 380
  - b. \$ 540
  - c. \$1.050
  - d. \$1.380
4. The sum of prime numbers that are greater than 60 but less than 70 is
  - a. 67
  - b. 128
  - c. 191
  - d. 197
5. A rectangular garden is to be twice as long as it is wide. If 360 meters of fencing, including the gate, will completely enclose the garden, what will be the length of the garden, in meters?
  - a. 120
  - b. 140
  - c. 160
  - d. 180
6. At a supermarket, John spent  $1/2$  of his money on fresh fruits and vegetables,  $1/3$  on meat products, and  $1/10$  on bakery products. If he spent the remaining \$6 on candy, how much did John spend at the supermarket?
  - a. \$60
  - b. \$80
  - c. \$90
  - d. \$120
7. If the quotient  $a/b$  is positive, which of the following must be true?
  - a.  $a > 0$
  - b.  $b > 0$
  - c.  $ab > 0$
  - d.  $a - b > 0$

15. A rope 40 meters long is cut into two pieces. If one piece is 18 meters longer than the other, what is the length, in meters, of the shorter piece?
- 9
  - 11
  - 18
  - 22
16. A gym class can be divided into 8 teams with an equal number of players on each team or into 12 teams with an equal number of players on each team. What is the lowest possible number of students in the class?
- 20
  - 24
  - 36
  - 48
17. If  $n$  is the product of the integers from 1 to 8, inclusive, how many different prime factors greater than 1 does  $n$  have?
- Four
  - Five
  - Six
  - Seven
18. On a scale that measures the intensity of a certain phenomenon, a reading of  $n+1$  corresponds to an intensity that is 10 times the intensity corresponding to a reading of  $n$ . On that scale, the intensity corresponding to a reading of 8 is how many times as great as the intensity corresponding to a reading of 3?
- 5
  - 50
  - $10^5$
  - $5^{10}$
19. If  $1,5/(0,2 + x) = 5$ , then  $x =$
- 3,7
  - 0,1
  - 0,3
  - 0,5
20. If  $n$  is an integer, which of the following must be even?
- $n+1$
  - $n+2$
  - $2n$
  - $2n+1$
21.  $1 - (1/2 - 2/3) =$
- $6/5$
  - $7/6$
  - $6/7$
  - $5/6$
22. How many integers  $n$  are there such that  $1 < 5 + 5n < 25$ ?
- Five
  - Four
  - Three
  - Two

30. A restaurant meal cost \$35.50 and there was no tax. If the tip was more than 10 percent but less than 15 percent of the cost of the meal, then the total amount paid must have been between
- \$40 and \$42
  - \$39 and \$41
  - \$38 and \$40
  - \$37 and \$39

*Remarks:*

- ✓ *This test contains 30 questions. Each question has 4 possible answers, one of which is correct. A correct answer is worth 3 points.*
- ✓ *10 points will be given from the start*



CIG 3  
BAREM

Codul grilei ( 1 - 6 )

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Modulul de specializare

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Nr.	a	b	c	d
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