

Test de verificare a cunoștințelor la matematică
în vederea transferului pe locurile rămase
libere la sfârșitul clasei a X-a
VARIANTA 2



1. Suma valorilor reale ale lui x , pentru care numerele $x, \sqrt{1+3x}, x+2$, sunt termeni consecutivi ai unei progresii aritmetice, este egală cu:
- A. 0 B. 1 C. $\frac{3}{2}$ D. $\frac{5}{2}$
2. Valoarea numărului complex $A = i^3 + i^4 + i^5 + i^6$ este egală cu:
- A. 0 B. 1 C. i D. $-i$
3. Lungimea vectorului care unește originea axelor de coordonate cu punctul de pe dreapta de ecuație $d: x - 5y + 1 = 0$, a cărui abscisă este egală cu 4, este:
- A. $\sqrt{15}$ B. 4 C. $\sqrt{17}$ D. 5
4. Rezultatul calculului $48 \cdot \frac{C_6^4}{P_6} + A_5^2$ este:
- A. 1 B. 2 C. 11 D. 21
5. Numărul soluțiilor ecuației $\sin x = \frac{1}{2}$, $x \in [0, 2\pi]$ este:
- A. 4 B. 3 C. 2 D. 1
6. Mulțimea valorilor parametrului real m , pentru care ecuația $4^x - (m+1) \cdot 2^x + m = 0$ are exact o soluție reală, este:
- A. $(-\infty, 0]$ B. $\mathbb{R} \setminus \{1\}$ C. $[0, \infty)$ D. $(-\infty, 0) \cup \{1\}$
7. Se dau punctele de coordonate $A(3,1), B(1,-5), C(-2,2)$. Ecuația înălțimii duse din B în triunghiul ABC este:
- A. $5x - y - 10 = 0$ B. $5x - y - 6 = 0$ C. $5x - y = 0$ D. $x - 5y - 10 = 0$
8. Numărul funcțiilor $f: A \rightarrow B$, unde $A = \left\{ \frac{x}{|x|} + \frac{y}{|y|} / x, y \in \mathbb{R}^* \right\}$ și $B = \left\{ x \in \mathbb{N}^* / \frac{x+3}{3x-1} \in \mathbb{Z} \right\}$, este egal cu:
- A. 6 B. 8 C. 9 D. 27
9. Mulțimea soluțiilor ecuației $\log_x 2 = \frac{\log_1 x}{\log_{\sqrt{2}}(\frac{1}{2})}$ este:
- A. $\left\{ \frac{1}{4}, 4 \right\}$ B. $\left\{ -\frac{1}{4}, \frac{1}{4} \right\}$ C. $\left\{ \frac{1}{2} \right\}$ D. $(0, \infty) \setminus \{1\}$

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Barem de evaluare și notare
VARIANTA 2

Subiect	
1	B
2	A
3	C
4	D
5	C
6	D
7	A
8	B
9	A

Test de verificare a cunoștințelor la limba engleză
în vederea transferului pe locurile rămase libere la sfârșitul clasei a X-a

VARIANTA 2



READING COMPREHENSION

Read the following texts and choose the right answer A, B, C or D.

Tourist attractions and theme parks have made Southern California very well-known all over the world. Firstly, Hollywood is the most important reason why people go there; tourists are also attracted by such things as the "Walk of Fame", where the names of many famous people and film stars are found written on gold stars. The hope of catching sight of the movie stars who live in the hills surrounding Los Angeles also appeals very much to tourists. Visiting glamorous shops in Beverly Hills is another thing that fascinates tourists. The most popular theme parks are Disneyland, of course, and then Magic Mountain Amusement Park, Knott's Berry Farm, and Raging Waters Park. The best thing to do is to visit Universal Studios, which offer to people who want to combine tourist attractions and theme parks the possibility to do both.

1. Which of the following statements best states the main idea of this passage?
- A. Not only does Southern California have tourist attractions, but also theme parks for visitors.
 - B. Most tourists generally like Southern California.
 - C. Disneyland is one of the best-known sights in the world.
 - D. Many celebrities and movie stars live in Southern California.

Although Finland did not achieve full national independence until 1917, its current military traditions go back more than 300 years. As an integrated part of the kingdom of Sweden, Finland supplied the Swedish armies not only with foot soldiers, but also with highly qualified officers. Contributing as much as one-third of the manpower of the Swedish armed forces, the Finnish infantry and cavalry distinguished themselves at a time when Sweden was playing a decisive role in European power politics.

The performance of the Finns on various battlefields had justified their reputation for bravery and their confidence in their own martial abilities. With the decline of Swedish power in the eighteenth century, the Finns were requested to defend the country's borders to the east against their enemy. On three major occasions, armies from the east occupied parts of the country for a number of years before eventually being driven out by Finnish and Swedish forces.

2. The first paragraph informs us that ...

- A. Finland current military independence goes back more than 300 years.
- B. Finland became independent before 1917.
- C. Finnish military traditions are more than 300 years old.
- D. Finnish national traditions were not achieved earlier than 1917.

3. According to the text, Finland supported Sweden ...

- A. with administrative personnel and forces.
- B. to integrate in Europe.
- C. to achieve full national independence.
- D. with soldiers and officers.

4. The Finns were known ...

- A. to have declined the Swedish power.
- B. to have defended their enemy to the east.
- C. for courage and trust in their own military skills.
- D. for their doubt and lack of determination.



GRAMMAR AND VOCABULARY

Choose the right answer A, B, C or D.

5. My brother finished his dinner ... than my sister.

- A. quickly
- B. more quickly
- C. much quicker
- D. the quickest

6. We ... an interesting program before they came.

- A. have been watching
- B. have watched
- C. had been watching
- D. were watching

7. I ... some wood for the fire while you ... the salad.

- A. will fetch / prepare
- B. fetch / are preparing
- C. am fetching / will prepare
- D. was fetching / have prepared

8. There isn't any more chalk, it ... all

- A. has / used up
- B. was / used up
- C. has / been used up
- D. had / been used up

- 9. I would have called him right away if I ... his telephone number.**
A. have known
B. had known
C. will know
D. would know
- 10. "Why didn't you tell him to wait, Susan?" I asked.**
A. I asked Susan why hadn't she told him to wait.
B. I asked Susan why she hadn't told him to wait.
C. I asked Susan why didn't she tell him to wait.
D. I asked Susan why she didn't tell him to wait.
- 11. News from the war zone ... very bad.**
A. are
B. are being
C. is being
D. is
- 12. The old man looked pale and could hardly breathe. He ... for such a long time.**
A. should have walked
B. could be walking
C. must have been walking
D. would have been walking
- 13. According to the weather ... , it's going to rain all week.**
A. forecast
B. indication
C. warning
D. prediction
- 14. She didn't get the job, the main reason for that being her ... of confidence.**
A. failure
B. missing
C. losing
D. lack
- 15. John was ... for not paying the parking ticket.**
A. fined
B. charged
C. accused
D. judged

16. I think you should ... all the new words in the dictionary.

- A. look up
- B. make up
- C. point out
- D. find out

17. The Thames is a short river but it is WIDE. The antonym of the word written in capitals is

- A. long
- B. shallow
- C. big
- D. narrow

18. I heard that Jason won the lottery. What a ... of luck!

- A. hit
- B. stroke
- C. blow
- D. touch



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1. A
2. C
3. D
4. C
5. B
6. C
7. A
8. C
9. B
10. B
11. D
12. C
13. A
14. D
15. A
16. A
17. D
18. B