



Team nr. 1

- Olga Juravschi (Moldova)
- Yeliz Aydin (Turkey)
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Short introduction

The State Circus in Chisinau is an edifice built in 1981 and intended for circus Performances. The performance hall, with 1,900 seats arranged in the amphitheater, has an arena with a diameter of 13 m.



Question nr. 1

Calculate, in m, the area and length of the arena.

Author: Student name

Answer 1:

- Distance ($2r$) : 13 m $r=6,5$ m

- Pi (π) : 3,14

- R represents the length of a circle ($2\pi r$)

$$\text{Length: } 2 * 3,14 * 6,5 = 40,82 \text{ m}$$

- R represents the area of a circle (πr^2)

$$\text{Area: } 3,14 * 6,5 * 6,5 = 132,665 \text{ m}^2$$

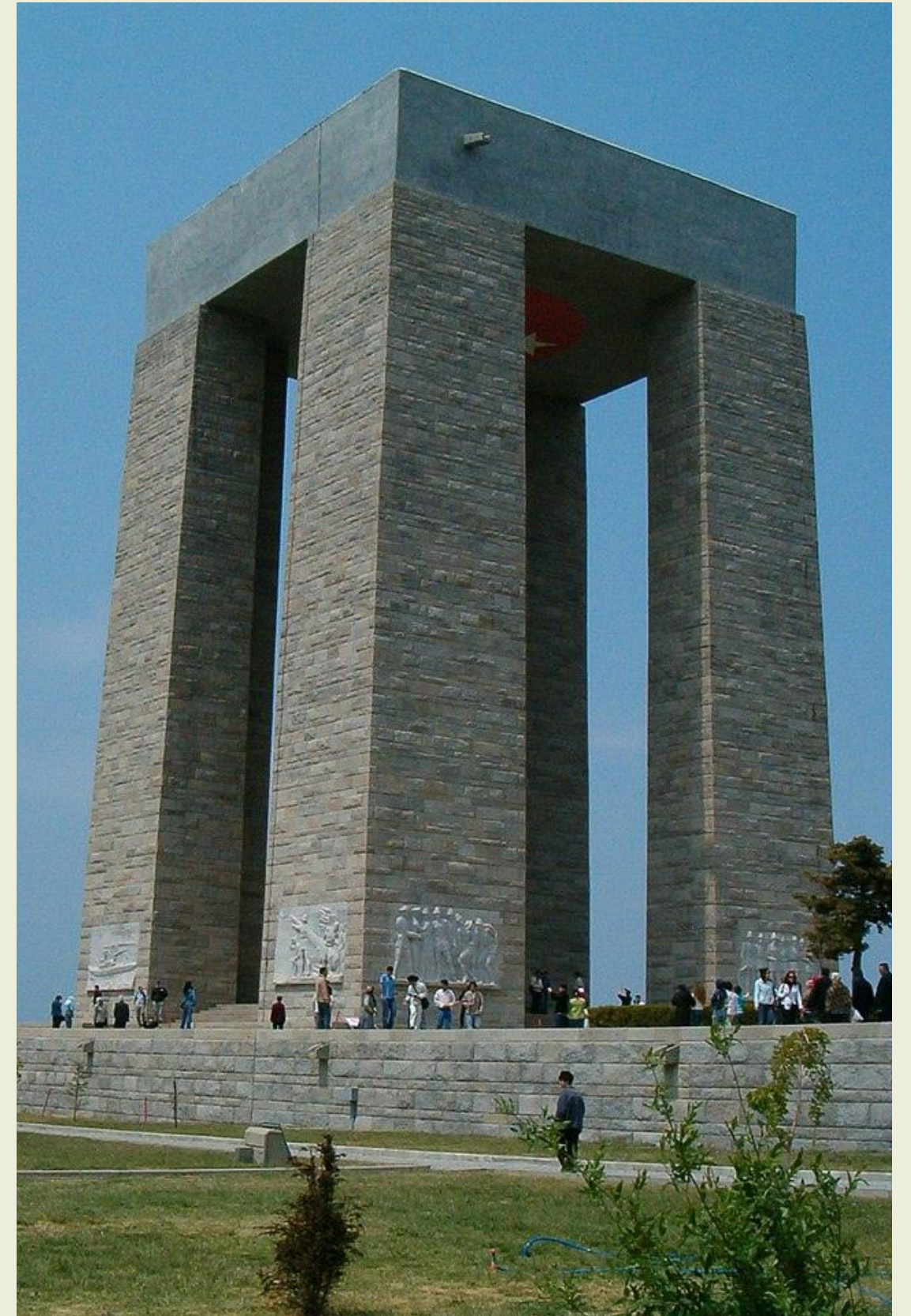
Student name: Irmak E.

Canakkale Martyrs Monument

It was built in 1915 in memory of the Turkish soldiers who lost their lives in the Gallipoli Wars during World War I. The height of the structure, which is built on 4 legs, is 41.7 meters. The width of the legs is 7.5 meters. The distance between the legs is 10 meters.

Question nr. 2

Calculate, in m, the area of the Monument.



Author: Defne E.

Answer:

- Height: 41.7 m
- Width: 7.5 m
- Depth: 10 m

Surface area of one leg:

Each leg has 4 rectangular faces:

1. Two vertical faces: Height x Width

$$2 \times (41.7 \times 7.5) = 2 \times 312.75 = 625.5 \text{ m}^2$$

2. Two vertical faces: Height x Depth

$$2 \times (41.7 \times 10) = 2 \times 417 = 834 \text{ m}^2$$

Total surface area of one leg:

$$625.5 + 834 = 1459.5 \text{ m}^2$$

Surface area of all four legs:

$$4 \times 1459.5 = 5838 \text{ m}^2$$

Thus, the total area of the monument is 5838 m².

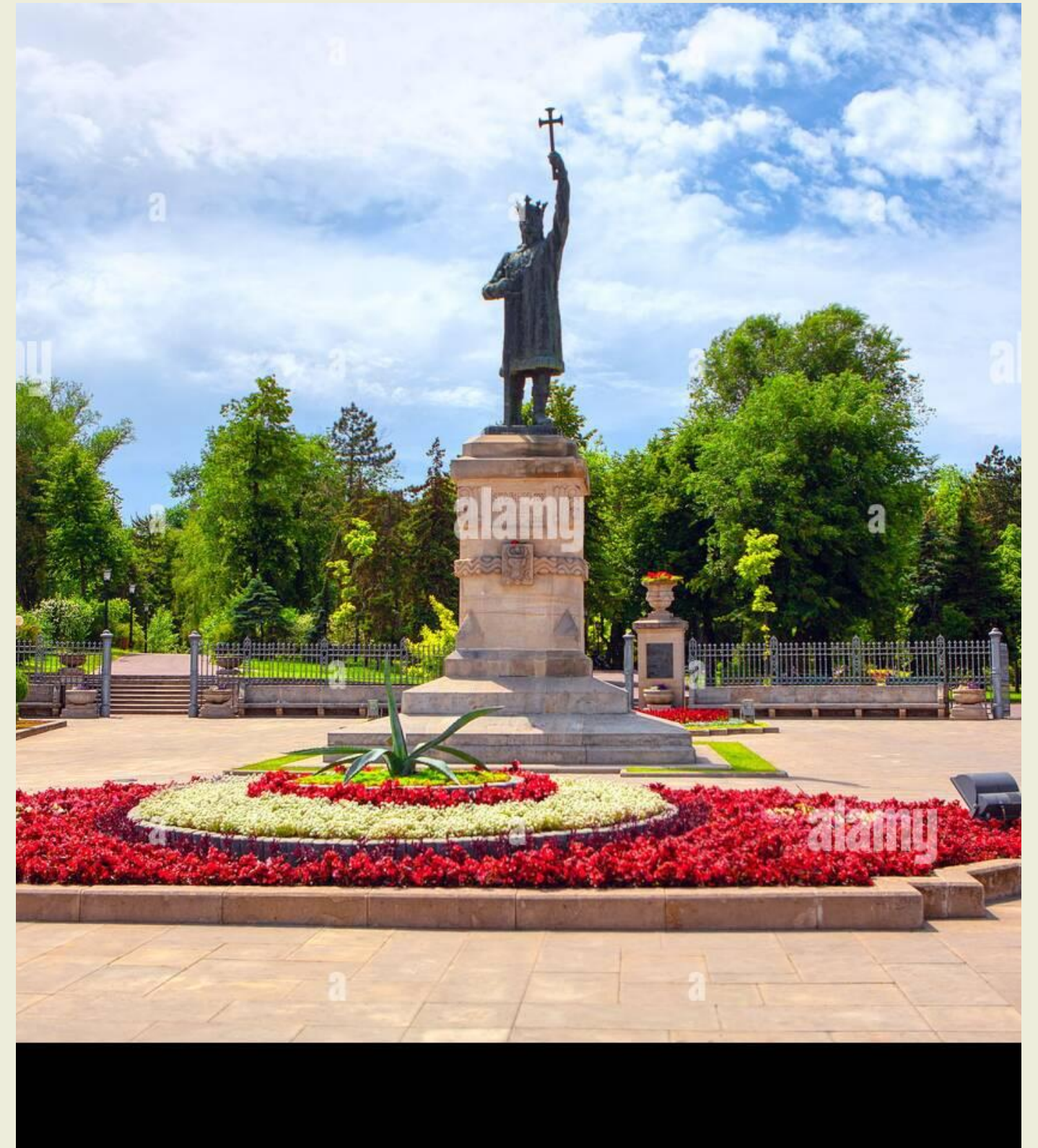
**Student name: Covaliov
Artemii**

Short introduction

The Stephen the Great Monument in Chişinău was unveiled in 1927 to honor the Moldavian ruler Stephen III. The bronze statue stands atop a stone pedestal, with a combined height of 5.2 meters. The monument is a significant cultural symbol for the city.

Question nr. 3

If the total height of the monument is 5.2 meters, convert this height into centimeters



Author: Mereuta Cezara



Answer:

- Height : 5,2 m
- 1 m=100 cm
- $5,2 * 100 = 520$ cm
- Height of the monument is **520 centimeters**

Student name: Demir E.

Short introduction

Arc de Triomphe

It is a historic and symbolic building, built in 1840 to commemorate the victory of the Tsar of Russia over the Ottoman Empire. The arch is located in the center of the city and represents an important link in the history of Chisinau.

Question nr. 4

“The Arch of Triumph is 27 meters tall with a rectangular base measuring 14 meters in length and 7 meters in width. What is the area of the base and the approximate volume of the arch, assuming it is a solid rectangular prism?”

Author: Şciurov Leonard



Answer:

- Height: 27 m
- Width: 14 m
- Depth: 7 m

Area of the base: $\text{Depth} \times \text{Width} = 14 \times 7 = 98 \text{ m}^2$

The approximate volume of the arch:

$\text{Height} \times \text{Width} \times \text{Depth} = 27 \times 14 \times 7 = 2646 \text{ m}^3$

Student name: Selahattin E.

Short introduction

Kilitbahir Castle (old spelling Kilidü'l-bahr), meaning "the lock of the sea", is a castle built in 1462 on the European coast of the Dardanelles. The length of the castle is 220 meters and its width is 120 meters. The walls of the castle have 3 towers that are almost completely round.



Question nr. 5

What geometric shapes Can you Find?

Author: Bade E.



Answer:

The geometric shapes are circles, rectangles, and triangles.

Student name: Mura Sofia

Short introduction

Kilitbahir Castle (old spelling Kilidü'l-bahr), meaning "the lock of the sea", is a castle built in 1462 on the European coast of the Dardanelles. The length of the castle is 220 meters and its width is 120 meters. The walls of the castle have 3 towers that are almost completely round.



Question nr. 6

Inside, there are slightly curved walls of a long triangular tower, which is reached from the walls by 3 stone bridges and this tower is 30 meters high and has 7 floors.

How many meters is the height of one floor?

Author: Yekta E.



Answer:

Please, post here the answer
for question nr. 3

Student name:

Short introduction

The second outer castle in the south was built in 1542 during the reign of Suleiman the Magnificent. At its southeast end rises a monumental tower with a diameter of 21 m, a circular plan and a dome.



Question nr. 7

Calculate, in m, the area and length of the arena.

Author: Doga E.



Answer:

Please, post here the answer
for question nr. 3

Student name:

Short introduction

The **National History Museum of Moldova** ([Romanian](#): *Muzeul Național de Istorie a Moldovei*) is a museum in [Central Chișinău, Moldova](#).

Question nr. 8

What geometric shapes Can you Find?



Author: Tuchila Karina



Answer:

Rectangle

Triangle

Cylinder

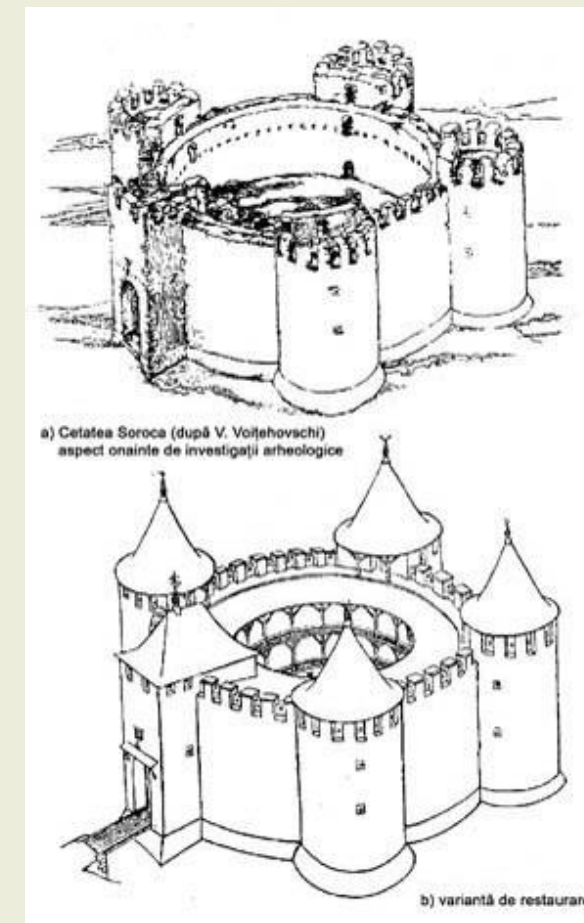
Circle

Square

Student name: Mustafa E.

Short introduction

The Soroca Fort (Romanian: Cetatea Soroca) is a historic fort in the Republic of Moldova, in the modern-day city of Soroca.



Question nr. 9

How many circles did you see

Author: Artemii Covaliov



Answer:

9 circles

Student name: Doruk E.

Short introduction

Çimenlik Castle (Kale-i Sultaniye) is located on the opposite shore of Kilitbahir Castle, on the plain next to Sarıçay. The castle has a rectangular plan of approximately 110x160 meters and consists of an outer wall and a main tower in the middle of this outer wall. The main tower is 30x42 meters in size, 20 meters high and has three floors.



Question nr. 10

What is the area of the base and the approximate volume of the arch, assuming it is a solid rectangular prism?"

Author: Ege E.



Answer:

Please, post here the answer
for question nr. 3

Student name:

Short introduction

The perimeter of Galata Tower is approximately 36 meters. A group of students will take pictures from the area where the marked circle is located. The circumference of the circle where the students stand is 54 meters. Students stop every 9 meters and take photos around the tower. How many photos in total will the students take as they circle the tower?

Question nr. 11



Author: Özdemir Bayraktar Science and Art Center/ Elif



Answer:

Please, post here the answer
for question nr. 3

Student name:



Short introduction

Question nr. 1

Author:



Answer:

Please, post here the answer
for question nr. 3

Student name:



Short introduction

Question nr. 1

Author: