

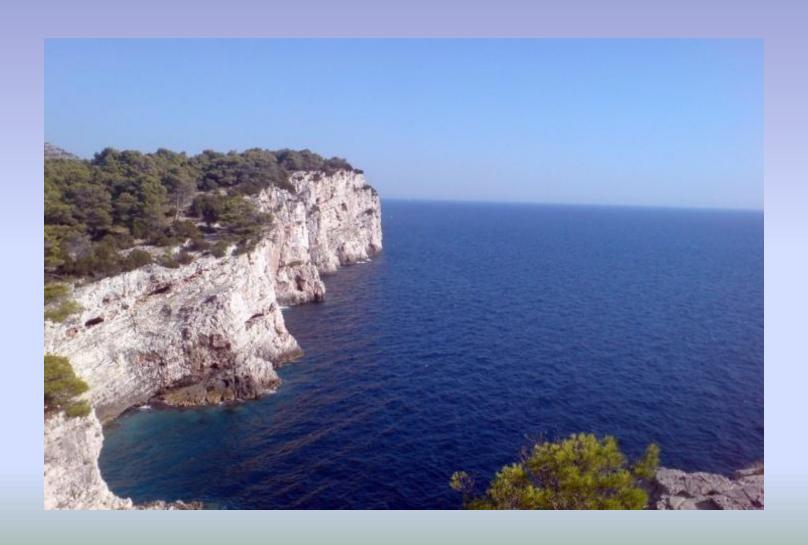
1. Glacier



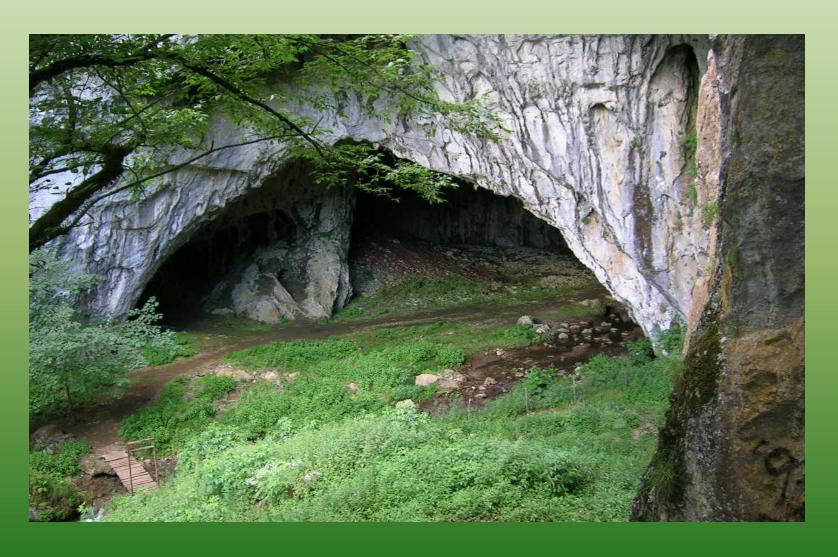
2. Canyon



3. Ocean



3. Cave





Aletsch Glacier

- The Aletsch Glacier is the largest glacier in the Alps. It has a length of about 24 km.
- a) How long is the glacier in centimeters on the map scale 1: 1 000 000?
- b) Due to melting the glacier gets smaller. How long was it in 2009 (in reality) in kilometers if on a map scale 1: 000 000 it was 27cm?

The Grand Canyon

- The Grand Canyon made by Colorado River in the state of Arizona in the United States is 446 kilometers long.
 - a) How long is the Canyon in centimeters if the map scale 1: 10 000 000?
 - b)How wide is the Canyon in meters in reality if on the map scale is 1: 100 000 it is only 1,5 cm?

Rupal Face

- The highest cliff in the world, is Rupal Face, which rises approximately 4,500 meters.
- a) How high in centimeters is the cliff on a map scale 1: 100 000?
- b) On one part of the map scale
- 1: 10 000 the height of the cliff is 30cm. How high in kilometers is the cliff in reality?



Mammoth Cave National Park

- Mammoth Cave National Park is a U.S. national park in central Kentucky with the longest cave system known in the world.
- a)How long is the cave system in centimeters if on the map scale 1: 10 000 000 the halls of the cave are 640 kilometers?
- b)In 1961, not all the halls were explored and the known walls were 14 centimeters on the map scale 1: 1000 000. How long were those halls?

- 1. The Aletsch Glacier is the largest glacier in the Alps. It has a length of about 24 km.
- a)How long is the glacier in centimeters on the map scale 1: 1 000 000?
 b) Due to melting the glacier gets smaller. How long was it in 2009 (in reality) in kilometers if on a map scale 1:100 000 it was 27cm?
 - **3.**The highest cliff (rock wall, mountain face) in the world, is Rupal Face, which rises approximately **4,500 meters**.
 - a) How high in centimeters is this cliff on a map scale 1: 100 000?
 b) On one part of the map scale 1: 10 000 the height of the cliff is 30cm. How high in kilometers is the cliff?

2. The **Grand Canyon** made by Colorado River in the state of Arizona in the United States is **446 kilometers** long.

a) How long is the Canyon in centimeters if the map scale 1: 10 000 000?

b) How wide is the Canyon in meters in reality if on the map scale is 1: 100 000 it is only 1,5 cm?

4.Mammoth Cave National Park is a U.S. national park in central Kentucky with the longest cave system known in the world. a)How long is the cave system in centimeters if on the map scale 1: 10 000 000 the halls of the cave are 640 kilometers? b)In 1961, not all the halls were explored and the known walls were 14 centimeters on the map scale 1: 100 000. How long were those halls?

Aletsch Glacier - answers

- The Aletsch Glacier is the largest glacier in the Alps. It has a length of about 24 km.
- a) How long is the glacier in centimeters on the map scale 1: 1 000 000?
- 24 km=24 000m=2 400 000cm
- 2 400 000cm:1 000 000=2,4cm
- b) Due to melting the glacier gets smaller. How long was it in 2009 (in reality) in kilometers if on a map scale 1: 000 000 it was 27cm?

27cm·100 000= 2 700 000cm=27 000m=27km

The Grand Canyon-answers

- The Grand Canyon made by Colorado River in the state of Arizona in the United States is 446 kilometers long.
- a)How long is the Canyon in centimeters if the map scale 1: 10 000 000?
- 446 km=446 000m=44 600 000cm
- 44 600 000cm:10 000 000=4,46cm
- b) How wide is the Canyon in meters in reality if on the map scale is 1: 100 000 it is only 1,5 cm?
- 1,5cm·100 000= 150 000cm=1 500m

Rupal Face

- The highest cliff in the world, is Rupal Face, which rises approximately 4,500 meters.
- a) How high is this cliff in centimeters on a map scale 1: 100 000?
- 4500m=450 000cm
- 450 000cm:100 000=**4,5cm**
- b) On one part of the map scale
- 1: 10 000 the height of the cliff is 30cm. How high in kilometers is the cliff in reality?

30cm·10 000= 300 000cm=3000m=3km

Mammoth Cave National Park

- Mammoth Cave National Park is a U.S. national park in central Kentucky with the longest cave system known in the world.
 - a) How long is the cave system in centimeters if on the map scale 1: 10 000 000 the halls of the cave are 640 kilometers?

640 km=640 000m=64 000 000cm

64 000 000cm:10 000 000=**6,4cm**

b)In 1961, not all the halls were explored and the known walls were 14 centimeters on the map scale

1: 1000 000. How long were those halls?

14cm·1 000 000= 14 000 000cm=140 000m=**140km**

