Erasmus+

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Improving Students` Motivation – Google Tools and Mobile Apps

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MATHEMATICS TASK

Geographical Sciences

Its purpose is the study of the surface and the spatial distribution of landscape phenomena in the landscape.

Geographic Coordinates

They serve to identify the location of any point on the earth's surface; It is the location of a place on the earth's surface.

Latitude

It is the angular distance from the Equator to the parallel of the place.

Longitude

It is the angular distance from the Greenwich semi-meridian to the place meridian**.**

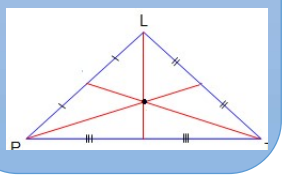
Situation

At the meeting in Riga, Bulgaria proposes that the next meeting should take place at the center of the triangle whose vertices are the geographical coordinates of the countries Latvia, Portugal and Turkey.

Portugal, on the other hand, says that it would be geographically more balanced if the next meeting takes place in Rome, Italy.

Remember that:

the centroid of the triangle is the triangle's center of gravity, the point of intersection of the 3 medians.



Objective: Use the CalcMaps, GeoGebra and GoogleMaps tools to verify the proposed situations and present a conclusion.

Procedure:

1 – Start by identifying the geographic coordinates of each location using the CalcMaps Coordinates tool

Places	**(x , y)**
Riga, Latvia	
Kardzali, Bulgaria	
Lisbon, Portugal	
Samsun, Turkey	
Montenero di Bisaccia, Italy	

2 – In Geogebra:

a) mark the points corresponding to the obtained coordinates;

b) define the vertex triangle LtPtTr

c) determine the midpoints and draw the medians of the sides of the triangle;

d) determine the coordinates of the intersection point of the medians - the centroid;

3 – Using Google Maps, determine the location of the point obtained;

4 – Returning to CalcMaps, in Distance, mark the points corresponding to the six locations.

Conclusion:

Observe the figure obtained and comment on the situation presented initially

Final comments – make your assessment (interest, difficulties…) in relation to the proposed activity

Thank you for your participation!!!