



ERATOSTHENES 2010

Measurements Results Form How to fill the form

The form is the report about the measurements done by the school.

Teacher and School identification



The fields in this part are supposed to have **no accents**. Otherwise problems with Google Maps display on the results will probably happen.

- **Teacher**

In this field you should write the name of the teacher that is responsible for the project at your school.

- **Teacher's e-mail**

In this field you should write the responsible teacher's email.

- **Country**

In this field you should write the country of your school.

- **School**

On this field you should write the name of your school.

- **City**

On this field you should write your school's city.





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Latitude and Longitude of the School



The angle fields of latitude and longitude are supposed to be filled **exactly** as shown in the examples that are presented. Otherwise problems with Google Maps display on the results will probably happen.

The system only accepts the notation degree-minute-second notation. If you have your latitude in decimal notation use the “Angle Conversions” calculator to transform your data into degree-minute notation. Seconds are not relevant for the estimation of the position for the measurement and therefore have not been considered.

- **Latitude:**

Be very careful writing down your latitude.

If you live at a latitude $41^{\circ}30'$ in the northern hemisphere you can only write $41^{\circ}30'$ N.



Notations like $41^{\circ}30$, $41.30N$, $41,30N$, $41\ 30\ N$, $+41.30$, $+41^{\circ}30'$ or even $41^{\circ}30'N$ (without space between $41^{\circ}30'$ and the N) will not be recognized and will produce errors on the Google Maps presentation of your school.

- **Longitude:**

Once again be very careful writing down your longitude.

If you live at a longitude $02^{\circ}09'$ and west of Greenwich Meridian you can write $02^{\circ}09'$ W.



Once again no other notations will be recognized not even $02^{\circ}09'W$ (without space between $02^{\circ}09'$ and the W) will not be recognized and will produce errors on the Google Maps presentation of your school.





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Measurement Results

- **Pole's Height (m) (e.g. 2.800)**

The pole's height should be measured in millimeters and presented in meters.

For instance 2 meters and 800 millimeters (80.0cm) should be presented as 2.800. Don't write the unit (meter) because it is not needed.

- **Shadow Length (m) (e.g. 1.800)**

Shadow length should also be measured in millimeters and presented in meters.

For instance 1 meter and 800 millimeters (80.0cm) should be presented as 1.800. Don't write the unit (meter) because it is not needed.

- **Angle at Top (e.g.16°20')**

Write the angle at top in degree-minute scale.

- **Shadow Direction (N or S)**

Write the direction that the shadow points from the stick. If the shadow points to north write N. If the shadow points to south write S.

- **Date-Time (e.g.21Jun2010 12h00 UT)**

Measurement should be made when the shadow crosses the local meridian line. The exact date and time of the measurement should be presented preferably in Universal Time. If you don't know what Universal Time it was at that moment, write the local time of the observation.





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Earth's Perimeter (km)

Write the Earth's Perimeter you calculated with your students using Eratosthenes proportion or using the "Earth Perimeter calculator" on the webpage. The value presented should be in kilometers with no need of decimal part.

- **Earth's Radius (km)**

You can present the radius using the formula

$$r_{\oplus} = \frac{P_{\oplus}}{2\pi}$$

Write the obtained value in kilometers without need of decimal part.

Report Data

- **Picture Upload**

In this field you can upload a picture to illustrate your school's activity.

- **Your comments about this project in your school**

In the final field the school can present a short report or some comments with a maximum of 3000 characters to let everybody know how everything ran out locally. You can also put links to webpages (Picasa, Flickr, etc) where other photos are presented.

