Student's worksheet

Experimental procedure

Time of the experiment:

- 1. Place the stick in the Sun and make sure it is vertical to the ground.
- 2. Measure the length of the stick and note down your measurement in the table below.
- 3. At the time scheduled to conduct the experiment, measure the length of the stick's shadow. Repeat the measurement 5 times and write your values down in the table.
- **4.** Your teacher will provide you the value for length of the third side of the triangle in the picture below. Write the value in your table.
- **5.** Your teacher will also provide you the value for the distance between the two schools. Write the value in your table.

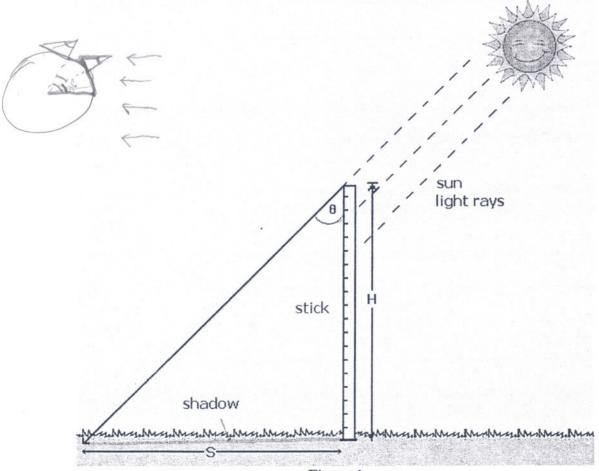


Figure 1

Zuvip jaozinkali pie 20 Liceul Technologic & Constantin Cantacyzino» Baicoi, Romania, pie ouviezajpieves j. njázos 45°01'57,72" και j. piñkos 25°51'23,89" (δορια) (2021221162)

| Stick length | 1 m | |
|---|-------------|-------------|
| Shadow length (1st measurement) | 69 cm | |
| Shadow length (2 nd measurement) | 78.5 cm | |
| Shadow length (3 rd measurement) | 74 cm | M.O. 725 cm |
| Shadow length (4 th measurement) | 685cm | / |
| Shadow length (5 th measurement) | | |
| Length of triangle's 3 rd side | | |
| Distance between schools | 1084,383 Km | |

| . Find the mean v | value for the length of the sha | adow. |
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| | | |
| he mean value fo | or the length of the shadow is | S: |
| . Divide the leng | of the stick's length, the light's 3 rd side (see table above | ength of the stick's shadow and the e) with 10. |
| . Divide the leng ength of the trians | gth of the stick's length, the l gle's 3 rd side (see table above | ength of the stick's shadow and the e) with 10. |
| . Divide the leng ength of the trians | gth of the stick's length, the l gle's 3 rd side (see table above | length of the stick's shadow and the e) with 10. |
| . Divide the leng | gth of the stick's length, the l gle's 3 rd side (see table above | length of the stick's shadow and the e) with 10. |
| 2. Divide the leng ength of the trians | gth of the stick's length, the l gle's 3 rd side (see table above | length of the stick's shadow and the e) with 10. |
| 2. Divide the leng ength of the trians | gth of the stick's length, the l gle's 3 rd side (see table above | length of the stick's shadow and the e) with 10. |

