**Eratosthenes Experiment 2016**

School: Tacher:

**Latitude:**

**Longitude:**

|  |
| --- |
| **Table measurements** |
| Length of the statue |  |
| Length of  the statue's shadow (first measurement) |  |
| Length of  the statue's shadow (second measurement) |  |
| Length of  the statue's shadow (third measurement) |  |
| Length of  the statue's shadow (fourth measurement) |  |
| Length of  the statue's shadow (fifth measurement) |  |
| Mean value of the length of the shadows |  |
| Length third party triangle |  |
| Distance between schools |  |

Angle calculation: 

The value of the angle θ : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The value of the angle φ :

Subtract the two corners. The resulting value corresponds to the angular distance between for two schools. Earth radius: R= 6.371 km



The volume of the Earth on the meridian:

The volume of the Earth around the equator **40 075 km**The volume of the Earth on the meridian **40 007,86 km**