Merlara ITALY

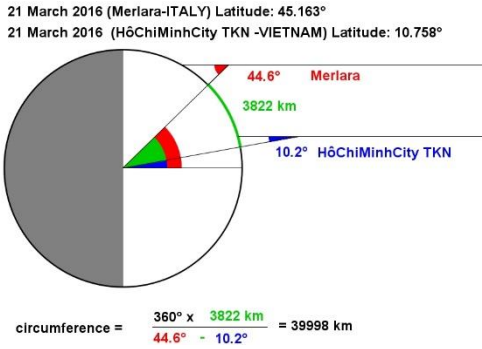
Lower Secondary School " Dante Alighieri"

Teacher : Mariapia

Students :

+45.163 N

+11.446 E



Merlara 1

Merlara ITALY

Lower Secondary School " Dante Alighieri"

Teacher : Mariapia

Students :

La scuola secondaria di Primo grado d'Alighieri si trova a Merlara.
E' una piccola scuola con circa 60 alunni suddivisi in 3 classi: prima, seconda e terza.
Gli alunni hanno tra 11 e 14 anni. Da 3 anni partecipiamo a progetti eTwinning.

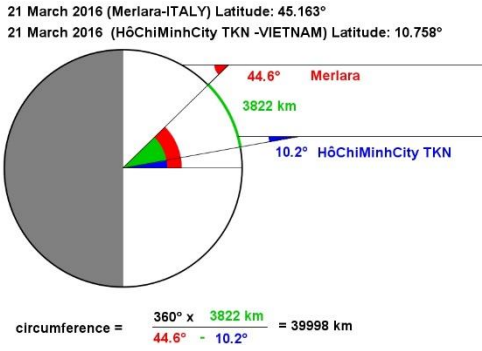
"D' Alighieri" is a Lower Secondary school in Merlara (Italy).
It's a small school with about 60 students divided into 3 classroom: first, second and third.
Students are 11-14 years old. Since 3 years we have been involved in eTwinning projects

Merlara ITALY

Lower Secondary School " Dante Alighieri"

39 998 km

+45.163 N
+11.446 E



Merlara 3

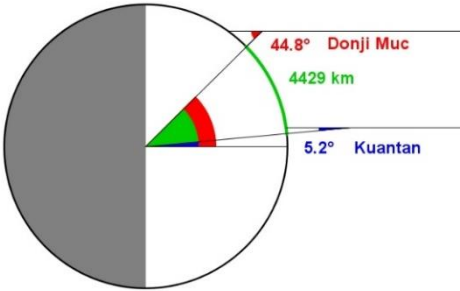
Donji Muć CROATIA

OŠ kneza Branimira

Teacher : Daniela
Students : Branimir

+43.694 N
+16.462 E

17 March 2016 (Donji Muc-CROATIA) Latitude: 43.694°
17 March 2016 (Kuantan-MALAYSIA) Latitude: 3.827°



$$\text{circumference} = \frac{360° \times 4429\ \text{km}}{44.8° - 5.2°} = 40264\ \text{km}$$

Donji Muc 1

Donji Muć CROATIA

OŠ kneza Branimira

Teacher : Daniela

Students : Branimir

Naša škola je stara kamena zgrada koja postoji preko 150 godina. U njoj se njeguje kulturna baština, ali se dosta pozornosti poklanja i modernim načinima učenja. Školu pohađa 130 učenika.

Učionica fizike služi i za nastavu biologije i kemije. Preferiramo istraživačku nastavu. Vršimo dosta eksperimenata i demonstracijskih pokusa.Učenici su uglavnom zainteresirani za ovakav oblik rada.

Our school is an old stone building that is over 150 years old. It nurtures cultural heritage, but a lot of attention paid to modern learning methods. School has 130 students. Physics classroom serves for teaching biology and chemistry. We prefer research classes. We do a lot of experiments and demonstration trials.

The students are mainly interested in this kind of work.

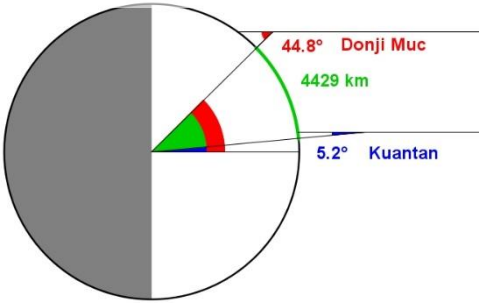
Donji Muć CROATIA

OŠ kneza Branimira

40 264 km

+43.694 N
+16.462 E

17 March 2016 (Donji Muć-CROATIA) Latitude: 43.694°
17 March 2016 (Kuantan-MALAYSIA) Latitude: 3.827°



$$\text{circumference} = \frac{360° \times 4429\ \text{km}}{44.8° - 5.2°} = 40264\ \text{km}$$

Brštanovo CROATIA

Osnovna škola kneza Branimira

Teacher : Daniela

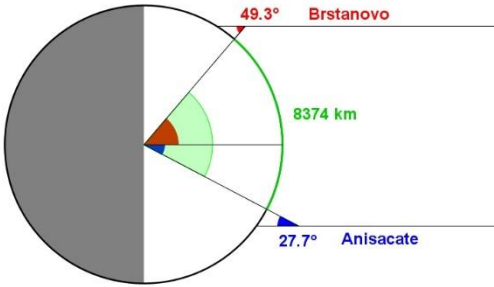
Students : Paško

+43.658 N

+16.415 E

09 march 2016 (Brstanovo-CROATIA) Latitude: 43.658

09 march 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360° \times 8374\ \text{km}}{49.3° + 27.7°} = 39151\ \text{km}$$

Brštanovo 1

Brštanovo CROATIA

Osnovna škola kneza Branimira

Teacher : Daniela

Students : Paško

Područna škola Brštanovo dio je škole kneza Branimira u Donjem Muću i od nje je udaljena 15 km. Ima samo 19 učenika. Oni, kao i njihovi vršnjaci iz matične škole, vrlo rado sudjeluju u svim projektima. Mali broj učenika razlog je da su povezani prijateljstvom i dobrom suradnjom bez obzira na uzrast.

Branch School Brštanovo is a part of the school of knez Branimir in the Donjem Muću and from it is 15 km away. It has only 19 students. They, like their peers in mainstream schools, are very happy to participate in all projects. A small number of students is the reason that they are linked by friendship and good cooperation regardless of age.

Brštanovo CROATIA

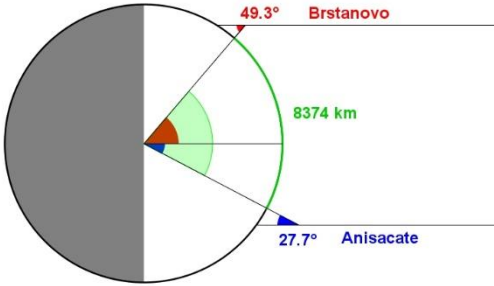
Osnovna škola kneza Branimira

39 151 km

Teacher: Daniela
Student:

09 march 2016 (Brstanovo-CROATIA) Latitude: 43.658
09 march 2016 (Anisacate-ARGENTINA) Latitude: -31.717

+43.658 N
+16.415 E



$$\text{circumference} = \frac{360° \times 8374\ \text{km}}{49.3° + 27.7°} = 39151\ \text{km}$$

Neorić CROATIA

OŠ Neorić - Sutina

Teacher : Daniela

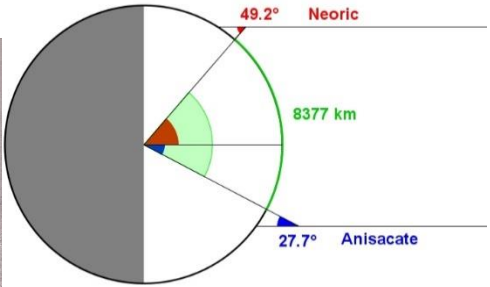
Students : Karla

+43.686 N

+16.520 E

09 march 2016 (Neoric-CROATIA) Latitude: 43.686

09 march 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360° \times 8377\ \text{km}}{49.2° + 27.7°} = 39216\ \text{km}$$

Neoric 1

Neorić CROATIA

OŠ Neorić - Sutina

Teacher : Daniela
Students : Karla

Osnovna škola Neorić-Sutina ima 100 učenika. Škola se nalazi u mjestu Neoriću i djeca iz obližnjih sela autobusom se dovoze svako jutro. Škola njeguje narodne običaje, ali pokušava se uključiti u modernije načine podučavanja. Djecu raduje suradnja u izvođenju Eratostenova mjerenja ekvatora. Škola je smještena 5 km od Donjeg Muća pa su učenici povezani zajedničkim projektom i izmjenjuju iskustva.

Primary school Neorić-Sutina has 100 students. The school is located in Neorić and children from nearby villages are transported by bus every morning. School nurtures folk customs, but tries to get involved in more modern ways of teaching. Children are looking forward to cooperation in the realization Eratosthenes circumference measurements. The school is located 5 km from Donji Muc and students are connected by a common project and share experiences.

Neorić CROATIA

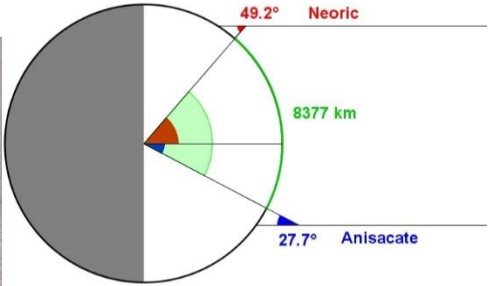
OŠ Neorić - Sutina

39 126 km

Teacher: Daniela
Students:

+43.686 N
+16.520 E

09 march 2016 (Neoric-CROATIA) Latitude: 43.686
09 march 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360° \times 8377\ \text{km}}{49.2° + 27.7°} = 39216\ \text{km}$$

Vinhedo BRAZIL

E. E. Patriarca da Independência

Teacher : Maria Clara

-23.030 S

-46.984 W

Vinhedo 1

Vinhedo BRAZIL

E. E. Patriarca da Independência

Teacher : Maria Clara

A nossa escola está localizada na cidade de Vinhedo, no estado de São Paulo – Brasil. Temos alunos de ensino fundamental II no período vespertino e alunos do Ensino Médio no período matutino e noturno. A Escola Estadual Patriarca da Independência é uma escola tradicional da cidade. Foi fundada em 1957 e muitas pessoas importantes da cidade estudaram nela. Nós participamos das medidas em setembro de 2010, 2011, 2013 e 2014, mas nós não temos medidas para compartilhar com vocês de março deste ano. De qualquer forma, nós estamos felizes de participar da vídeo conferência com os países europeus para trocar experiências, conhecer outras culturas, costumes, curiosidades dos diferentes países e esperamos ter um encontro bastante agradável e frutífero!

Vinhedo 2

Our school is located in Vinhedo city, in São Paulo State – Brazil. We have students from elementary school in the afternoon and high school students in the morning and at night. Patriarca da Independência State School is a tradicional school of the city. It was founded in 1957 and a lot of important people of the city studied there. We participated to the September measures in 2010, 2011, 2013 and 2014, but we have no measure to share with you for this year in March. Anyway, we are happy to participate to the videoconference with Europeans countries to exchange experiences, know another cultures, customs, curiosities of the different countries and we look forward a very pleasant and fruitful meeting!

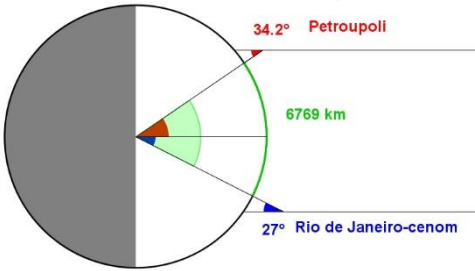
Rio de Janeiro BRAZIL

Centro Educacional Nosso Mundo

Teacher : Jeane

-22.890 S
-43.317 W

29 March 2016 (Petroupoli-GREECE) Latitude: 38.036
29 March 2016 (Rio de Janeiro-cenom-BRASIL) Latitude: -22.89



circumference = $\frac{360° \times 6769\ km}{34.2° + 27°}$ = 39818 km

Rio cenom 1

Rio de Janeiro BRAZIL

Centro Educacional Nosso Mundo

Teacher : Jeane

O CENOM (Centro Educacional Nosso Mundo) é uma escola que atende crianças especiais e atividade e convivencia dia onde tem atoiviade de informatica artesanato, educação física, cozinha e tem o compromisso de levar a educação a todos indistintamente. Todos são capazes!

The CENON (Educational Centre Our World) is a school that serves special needs children in daily activities of coexistence such as computing, crafts, physical education, cooking and is committed to bring education to all without distinction.
All are capable!

Rio cenom 2

Rio de Janeiro BRAZIL

Centro Educacional Nosso Mundo

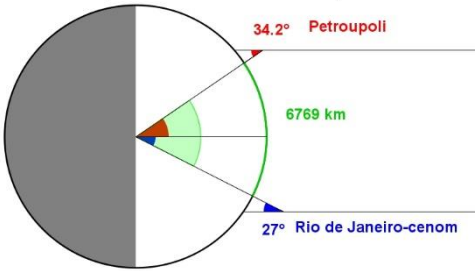
39 818 km

-22.890 S

-43.317 W

29 March 2016 (Petroupoli-GREECE) Latitude: 38.036

29 March 2016 (Rio de Janeiro-cenom-BRASIL) Latitude: -22.89



circumference = $\frac{360° \times 6769\ km}{34.2° + 27°}$ = 39818 km

Rio cenom 3

Rio de Janeiro BRAZIL

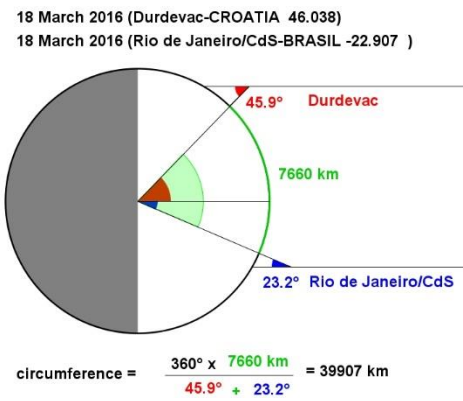
Campo do Santana

Teacher : Jeane

-22.907 S

-43.189 W

Rio cds 1



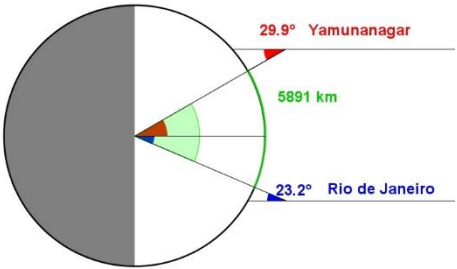
Rio de Janeiro BRAZIL

Museu do Amanhã

Teacher : Jeane

-22.895 S
-43.182 W

20 March 2016 (Yamunanagar-INDIA) Latitude: 30.133
20 March 2016 (Rio de Janeiro-BRASIL) Latitude: -22.895



$$\text{circumference} = \frac{360° \times 5891\ \text{km}}{29.9° + 23.2°} = 39939\ \text{km}$$

Rio mda 1

Rio de Janeiro BRAZIL

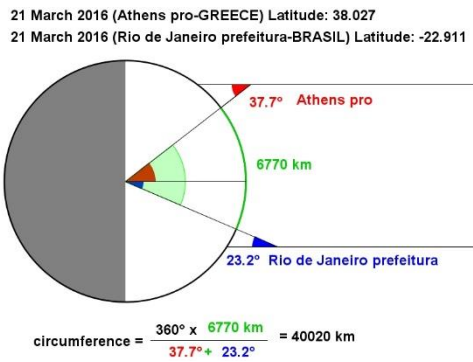
Prefeitura do Rio de Janeiro

Teacher : Jeane

-22.911 S

-43.206 W

Rio prefeitura 1



Rio de Janeiro BRAZIL

Theatro Municipal

Teacher : Jeane

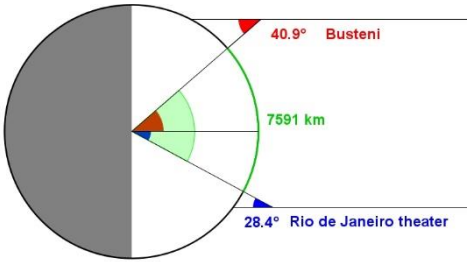
-22.909 S

-43.179 W

Rio TM 1

31 March 2016 (Busteni-ROMANIA) Latitude: 45.416

31 March 2016 (Rio de Janeiro theater-BRASIL) Latitude: -22.909



$$\text{circumference} = \frac{360° \times 7591\ \text{km}}{40.9° + 28.4°} = 39434\ \text{km}$$

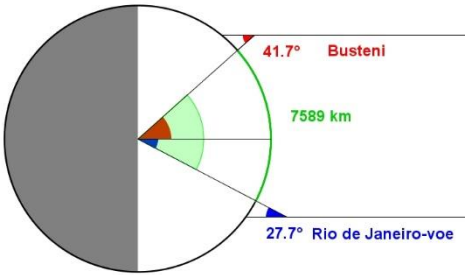
Rio de Janeiro BRAZIL

Vila Olímpica do Encantado

Teacher : Jeane

-22.894 S
-43.300 W

29 March 2016 (Busteni-ROMANIA) Latitude: 45.416
29 March 2016 (Rio de Janeiro-voe-BRASIL) Latitude: -22.894



$$\text{circumference} = \frac{360° \times 7589\ \text{km}}{41.7° + 27.7°} = 39367\ \text{km}$$

Rio VOE 1

Maricá BRAZIL

Escola Municipal Carlos Magno Legentil da Matta

Teacher : Jeane

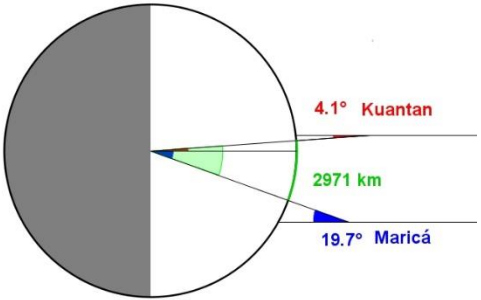
-22.919 S

-42.819 W

Marica 1

19 March 2016 (Kuantan-MALAYSIA) Latitude: 3.827 °

19 March 2016 (Maricá -BRAZIL) Latitude: -22.919 °



$$\text{circumference} = \frac{360° \times 2971\ \text{km}}{4.1° + 19.7°} = 44939\ \text{km}$$

Imbassai BRAZIL

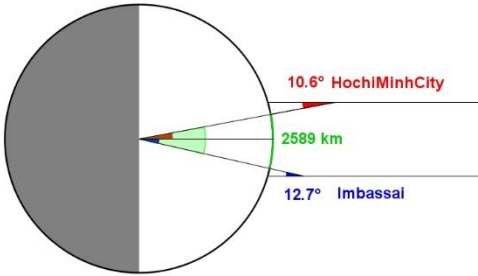
-12.491 S
-37.955 W

Imbassai1

Fundación Caminos de Anisacate

Teacher : Jose Luis

20 March 2016 (HochiMinhCity-VIETNAM) Latitude: 10.809
20 March 2016 (Imbassai-BRASIL) Latitude: -12.491



$$\text{circumference} = \frac{360° \times 2589\ \text{km}}{10.6° + 12.7°} = 40002\ \text{km}$$

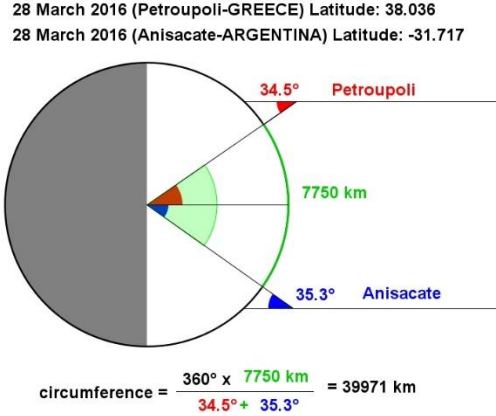
Anisacate ARGENTINA

-31.717 S
-64.400 W

Anisacate 1

Fundación Caminos de Anisacate

Teacher : Jose Luis



Anisacate ARGENTINA

Fundación Caminos de Anisacate

Teacher : Jose Luis

La Fundación Caminos de Anisacate, tiene su sede en la localidad de Anisacate, provincia de Córdoba, en la Republica Argentina. Es una zona rural, en el faldeo del cordón de las sierras chicas a 40 km al sur de la capital de la provincia. Fue fundada en el año 2014 con el fin de investigar y desarrollar proyectos que ayuden a mejorar la calidad de vida de los habitantes de la zona. La localidad cuenta con colegios de nivel inicial, primario y secundario y la fundación difunde entre sus directivos, maestras y profesores entre otros proyectos el Eratostenes Europa y también la versión Argentina. También contribuye con acciones de orden social y cultural junto a las comunas del área de influencia.

Caminos de Anisacate Foundation, is based in the town of Anisacate province of Cordoba in Argentina. It is a rural area in the foothills of the Sierras Chicas 40 km south of the capital of the province. It was founded in 2014 in order to research and develop projects that help improve the quality of life of the inhabitants of the area. The town has schools from the elementary to the secondary level and the foundation spreads among its managers, teachers and professors among projects such as Eratosthenes Europe and the Argentina version. Actions also contributes to social and cultural together with communities of area of influence.

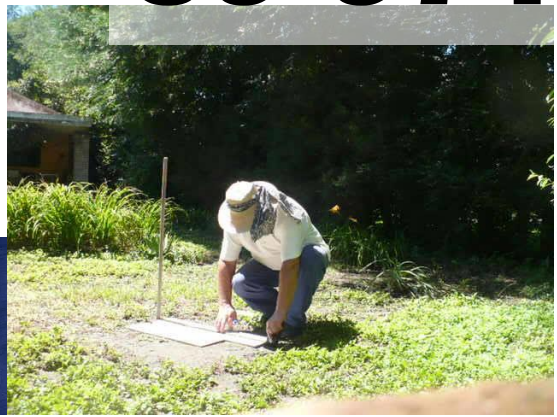
Anisacate ARGENTINA

Fundación Caminos de Anisacate

39 971 km

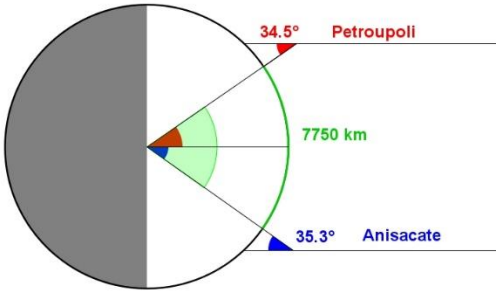
-31.717 S

-64.400 W



28 March 2016 (Petroupoli-GRECE) Latitude: 38.036

28 March 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360° \times 7750\ \text{km}}{34.5° + 35.3°} = 39971\ \text{km}$$

Anisacate 3

José de la Quintana ARGENTINA I.P.E.T. N° 265 "Escuela de Minería"

Teacher : Dario

Students : Milagros,Pablo y Juan

-31.804 S

-64.414 W

José de la Quintana ARGENTINA I.P.E.T. N° 265 "Escuela de Minería"

Teacher : Dario

Students : Milagros,Pablo y Juan.

La Escuela de Minería IPET 265, se encuentra situada en la localidad de José de la Quintana, en la Provincia de Córdoba, Republica Argentina, a 50 km de la capital, en zona rural. Fundada el 1 de julio de 1954, se especializa en la formación de “Técnicos Mineros” durante un ciclo de 7 años. Cuenta con más de 300 alumnos y una residencia estudiantil para 50. Alumnos de 11 a 18 años cursan las materias básicas y las de la especialidad en la tecnicatura de minería. La escuela mantiene convenios con empresas privadas, donde se realizan “pasantías” y practicas relacionadas con la actividad minera. Cuenta también, con material y herramientas, laboratorio de geología y una mina abandonada para realizar tareas practicas.

The School of Mining IPET 265, is located in the town of Jose de la Quintana, in the Province of Córdoba, Argentina Republic, 50 km from the capital, in rural areas. Founded on July 1, 1954, it specializes in the formation of "Technical Miners" during a cycle of seven years. It has more than 300 students and a student residence for 50 students aged 11 to 18 years They study the basic topics and specialty in mining technics. The school has agreements with private companies, where "internships" and practices related to mining are performed. It also has, with materials and tools, laboratory of geology and an abandoned mine to perform practical tasks.

Pastida GREECE

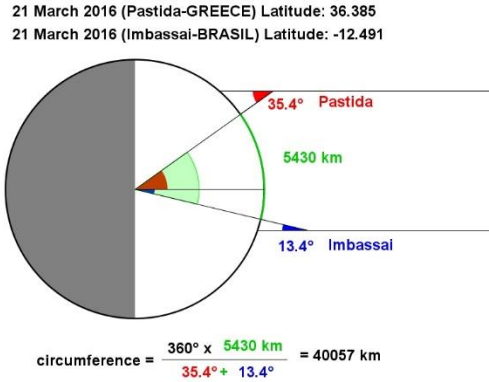
Primary School of Pastida, Rhodes

Teacher : Katerina

Students : Lia, John

+36.385 N

+28.138 E



Pastida 1

Pastida GREECE

Primary School of Pastida, Rhodes

Teacher : Katerina

Students : Lia, John

Γεια σας !!

Είμαστε οι μαθητές του ΣΤ2 τμήματος του Δημοτικού Σχολείου Παστίδας. Η γνωριμία μας με τον Ερατοσθένη 2015 μας έκανε να πιέσουμε πολύ τη δασκάλα μας να συμμετέχουμε και στον Ερατοσθένη 2016. Και γιατί όχι άλλωστε; Επαναλαμβάνουμε ένα από τα μεγαλύτερα πειράματα γνωρίζοντας ταυτόχρονα φίλους σε όλο τον κόσμο … και διάσημοι … και επιστήμονες!!!

Το σχολείο μας βρίσκεται σε ένα χωριό, την Παστίδα, κοντά στην πόλη της Ρόδου. Είμαστε, βλέπετε από τους τυχερούς που ζουν σε ένα από τα ομορφότερα μέρη της Ελλάδας. Είμαστε σίγουροι ότι όταν μας γνωρίσετε καλύτερα και θα δείτε ότι και τα παιδιά του Δημοτικού σχολείου μπορούν να συμπεριφερθούν με απόλυτη επιστημονικότητα όσο και δημιουργικότητα .

Τα ξαναλέμε!!!

Pastida 2

Hello!!!

We are the students of 6th grade of Primary School of Pastida. Our acquaintance with Eratos 2015 make us persuade our teacher to participate in Eratosthenes 2016. And why not? We repeat one of the greatest experiments knowing at the same time friends all over the world … both famous and scientists!!!

Our school is located in a village, named Pastida, near the city of Rhodes. You see, we are from the lucky ones who live in one of the most beautiful places of Greece. We are confident that when you'll know us better and you'll see that also children of primary school can behave with absolute scientific approach and creativity.

See you around!!!

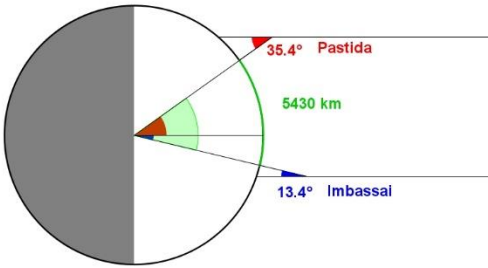
Pastida GREECE

Primary School of Pastida, Rhodes

40 057 km

+36.385 N
+28.138 E

21 March 2016 (Pastida-GREECE) Latitude: 36.385
21 March 2016 (Imbassai-BRASIL) Latitude: -12.491



$$\text{circumference} = \frac{360° \times 5430\ \text{km}}{35.4° + 13.4°} = 40057\ \text{km}$$

Kuantan MALAYSIA

SMK Saint Thomas

Teacher : Khor Got Hun

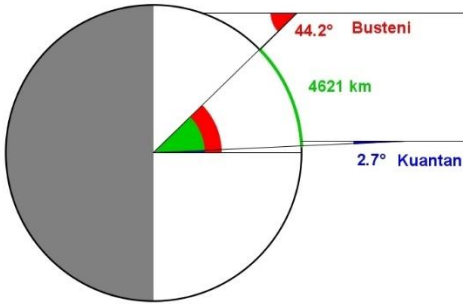
Students : Twong Weng Fung

+3.827 N

+103.339 E

23 March 2016 (Busteni-ROMANIA) Latitude 45.416

23 March 2016 (Kuantan- MALAYSIA) Latitude 3.827



$$\text{circumference} = \frac{360° \times 4621\ \text{km}}{44.2° - 2.7°} = 40086\ \text{km}$$

Kuantan MALAYSIA

SMK Saint Thomas

Teacher : Khor Got Hun

Students : Twong Weng Fung

Selamat sejahtera, kami ialah pelajar daripada SMK Saint Thomas, Kuantan. Bandar Kuantan ini amat aman dan berada di Malaysia. Terdapat pelbagai jenis kaum di Malaysia seperti Melayu, Cina, dan India. Tahun lepas, sekolah kita telah berpindah dari Jalan Gambut ke Jalan Beserah. Kami kini sedang berkongsi bangunan dengan sekolah yang lain sementara menunggu bangunan sekolah kita yang baru untuk dibina. Kami berasa sangat gembira kerana dapat mengambil bahagian dalam Projek Eratosthenes ini dan mendapat peluang untuk menjadi kawan dengan anda semua. Terima Kasih.

Greetings, We are students from Saint Thomas Secondary School (SMK St. Thomas) in Kuantan. Kuantan is a peaceful town in Malaysia and it is home to various races such as the Malays, Chinese and Indians. Last year, our school shifted from *Jalan Gambut* to *Jalan Beserah*. We are currently sharing buildings with another school while waiting for ours to be constructed. We are happy that we are able to participate in this Eratosthenes Project, and have the opportunity to make friends with all of you. Thank you.

Kuantan MALAYSIA

SMK Saint Thomas

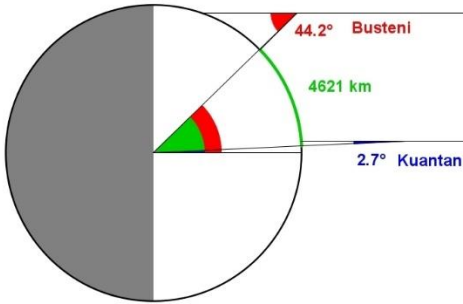
40 086 km

+3.827 N

+103.339 E

23 March 2016 (Busteni-ROMANIA) Latitude 45.416

23 March 2016 (Kuantan- MALAYSIA) Latitude 3.827



$$\text{circumference} = \frac{360° \times 4621\ \text{km}}{44.2° - 2.7°} = 40086\ \text{km}$$

Hô Chi Minh City VIETNAM

Trần Khai Nguyên High School

Teacher : Hoàng Hiền

Students :Võ Hoàng Yến Linh, Lê Phạm Hoàng Long

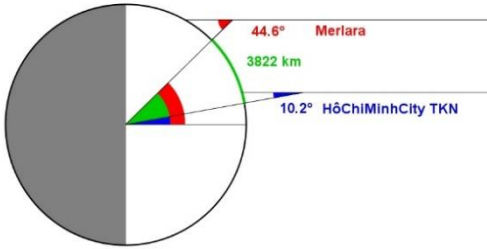
Võ Ngọc Thuỳ Dương, Dương Anh Thức

+10.758 N

+106.668 E

21 March 2016 (Merlara-ITALY) Latitude: 45.163°

21 March 2016 (HôChiMinhCity TKN -VIETNAM) Latitude: 10.758°



$$\text{circumference} = \frac{360° \times 3822\ \text{km}}{44.6° - 10.2°} = 39998\ \text{km}$$

Hô Chi Minh City VIETNAM

Trần Khai Nguyên High School

Teacher : Hoàng Hiền
Students :Võ Hoàng Yến Linh, Lê Phạm Hoàng Long
Võ Ngọc Thuỳ Dương, Dương Anh Thức

Chúng em rất vui và tự hào khi đại diện cho trường THPT Trần Khai Nguyên, Tp.HCM, Việt Nam tham dự buổi giao lưu toàn cầu thông qua chương trình Eratosthenes 2016 March Equinox. Không những được mô phỏng lại thí nghiệm đo chu vi Trái Đất - 1 trong 10 thí nghiệm đẹp nhất của nhân loại mà còn được giao lưu với các bạn học sinh có cùng chung niềm đam mê, quả là không còn gì thú vị hơn. Hy vọng thông qua chương trình, chúng em có thể trau dồi thêm nhiều kiến thức cũng như làm quen với nhiều bạn bè toàn cầu hơn.

We are very happy and proud to represent students from Tran Khau Nguyen highschool, HCM City, Vietnam in the global exchange program Eratosthenes 2016 March Equinox. Not only being able to imitate 1 of 10 most beautiful experiments of mankind but also participate in this exchange occasion with students around the world makes us can not be more excited. Hopefully, through this event, we can both widen our knowledges and make friends with global student friends.

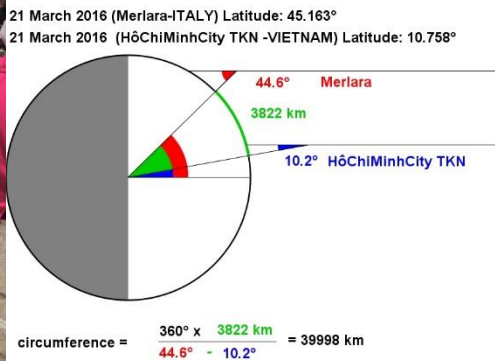
Hô Chi Minh City VIETNAM

Trần Khai Nguyên High School

Teacher: Hoàng Hà

39 998 km

+10.758 N
+106.668 E



Hô Chi Minh City VIETNAM

Phú Nhuận High School

Teacher : Duy Dang Tuan

Mentor: Vo Tri Khon/ Do Duc Sieu

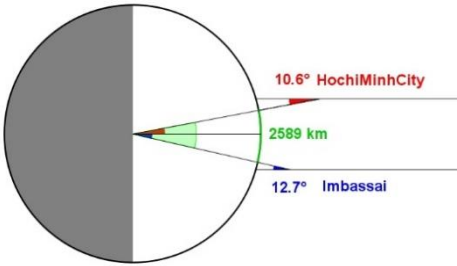
Students: Lam Yen Vy- Dang Quoc Cuong

+10.809 N

+106.676 E

20 March 2016 (HochiMinhCity-VIETNAM) Latitude: 10.809

20 March 2016 (Imbassai-BRASIL) Latitude: -12.491



$$\text{circumference} = \frac{360° \times 2589\ \text{km}}{10.6° + 12.7°} = 40002\ \text{km}$$

Hô Chi Minh City VIETNAM

Phú Nhuận High School

Teacher : Duy Dang Tuan

Mentor: Vo Tri Khon/ Do Duc Sieu

Students: Lam Yen Vy- Dang Quoc Cuong

Ngày xuân phân vừa qua, chúng em rất vui khi đại diện cho trường THPT Phú nhuận, Thành phố Hồ Chí Minh, Việt Nam tham dự án toàn cầu Eratosthenes 2016. Đây đã là lần thứ 5 trường em tham gia kể từ năm 2012. Vào hôm đó, chúng em đã được hướng dẫn về cách Erasthosthenes đã dùng để đo, cũng như cơ sở khoa học của thực nghiệm đo này và được mô phỏng lại thí nghiệm đo chu vi Trái Đất - 1 trong 10 thí nghiệm đẹp nhất của nhân loại. Ngoài ra, chúng em thực hành chung toàn trường với nhau. Mặc dù ngày nắng gắt nhưng đi là kỉ niệm thú vị trong thời học sinh phổ thông. Hy vọng thông qua chương trình, chúng em có thể trau dồi thêm nhiều kiến thức cũng như làm quen với nhiều bạn bè toàn cầu hơn. Chúng em cũng biết ơn những người thầy, cô và các anh chị trong CLB Thiên văn nghiệp dư TPHCM (HAAC) đã về trường hướng dẫn trong những năm qua.

PN 2

On this March equinox, we're too happy and proud of being representatives for Phu Nhuan high school (Ho Chi Minh City, Vietnam) in the global project named Eratosthenes 2016. This event was the 5th appearance of my school since 2012. On this day, we were taught about the way that Eratosthenes measured the Earth's circumference in the past, as well as on what principle does this experiment work? We reappeared 1 of 10 most beautiful experiments of mankind. Moreover, we made our collaboration with some schools in HCM City in spite of scorching sun. Hopefully through this event, we will widen our knowledge, as well as being friends with some student s all over the world. We're also grateful to the teachers, and members from HCMC Amateur Astronomy Club (HAAC), who taught us too much from 2012 until now.

Hô Chi Minh City VIETNAM

Phú Nhuận High School

Teacher : [illegible]

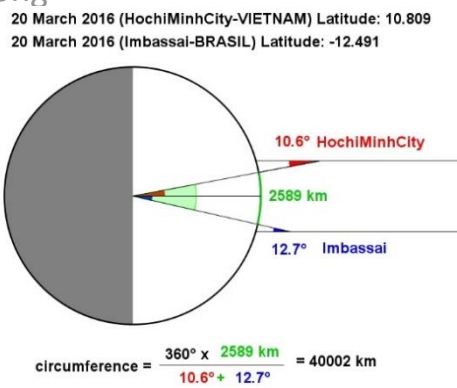
Mento[illegible]

Students: Lam Yen Vy- Dang Quoc Cuong

40 002 km

+10.809 N

+106.676 E



PN 3

Hô Chi Minh City VIETNAM

Ngoi Sao High School

Teacher : Duy Dang Tuan

Mentor: Vo Tri Khon/ Do Duc Sieu

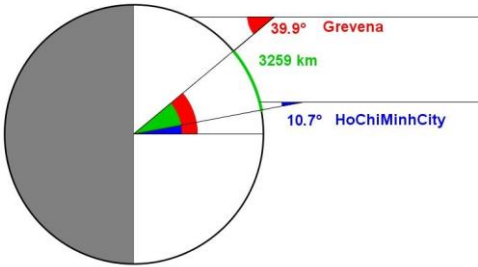
Students: Lam Yen Vy- Dang Quoc Cuong

+10.749 N

+106.614 E

21 March 2016 (Grevena-GREECE) Latitude: 40.086°

21 March 2016 (HoChiMinhCity-VIETNAM) Latitude: 10.749°



$$\text{circumference} = \frac{360° \times 3259\ \text{km}}{39.9° - 10.7°} = 40179\ \text{km}$$

NS 1

Hô Chi Minh City VIETNAM

Ngoi Sao High School

Teacher : Duy Dang Tuan

Mentor: Vo Tri Khon/ Do Duc Sieu

Students: Lam Yen Vy- Dang Quoc Cuong

Xin chào tất cả các bạn !

Chúng tôi là nhóm đến từ trường trung học phổ thông Nhân Việt và cảm thấy rất vui khi cùng hưởng ứng một thí nghiệm mang tính toàn cầu với tên gọi Eratosthenes 2016, diễn ra vào ngày xuân phân. Nhóm chúng tôi đã chia thành 6 nhóm nhỏ chủ yếu là các bạn học sinh khối 11 và thực hiện đo bán kính Trái đất dựa trên những lý thuyết đã được học trên lớp và niềm đam mê khoa học của mình, theo cách mà Eratosthenes đã làm trong quá khứ. Dù có khá nhiều khó khăn trong việc đo chính xác bóng nắng dẫn đến kết quả có sự sai số nhưng chúng tôi tìm thấy rất nhiều niềm vui cũng như nhận ra sự kết nối giữa lý thuyết và thực hành, chúng bổ sung cho nhau.

Qua thí nghiệm này, chúng tôi cũng có cơ hội để chia sẻ và học hỏi thêm nhiều điều bổ ích sau những giờ học lý thuyết căng thẳng trên lớp.

NS 2

Hello everyone!

We're a group from Ngoi Sao High School and we were so excited to celebrate the international experiment named Eratosthenes 2016 project on March Equinox . Our group was already divided into 6 smaller groups, mostly grade 11 students. We all used our knowledge from classes, as well as our passion about general science in measuring the Earth's radius, as Eratosthenes did in the past. Although there were some difficulties in reaching the precise value of the shadow (it led to some errors and miscalculation), we really had lots of fun at this project and realized the connection between theoretic and practice, they complemented each other.

This experiment was definitely an opportunity for us in sharing and learning some useful lessons/skills, after daily strained studying-time at school.

Hô Chi Minh City VIETNAM

Ngoi Sao High School

40 179 km

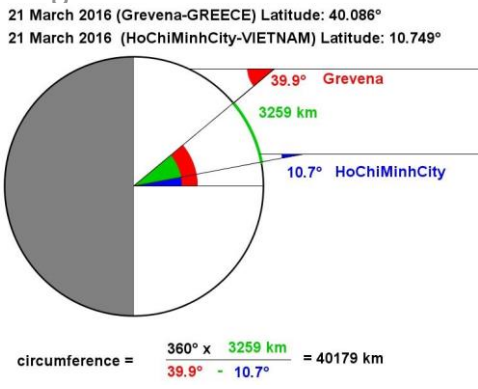
Tea[illegible] Quy D[illegible]g [illegible]

M[illegible] Tri K[illegible]on/[illegible]o [illegible] Sie[illegible]

Students: Lam Yen Vy- Dang Quoc Cuong

+10.749 N

+106.614 E



NS 1

Busteni ROMANIA

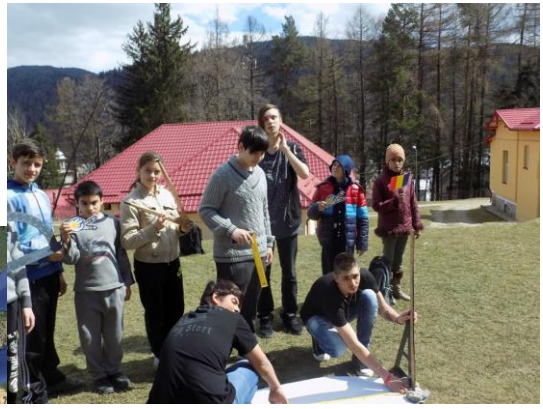
Colegiul Ion Kalinderu

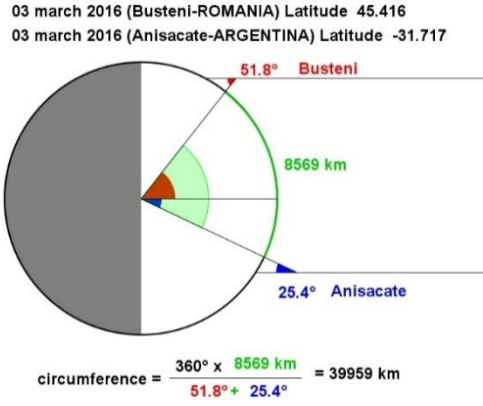
Teacher : Iuliana

Students : Moise Alexandru Florin, Bogdan Emanuel

+45.416 N

+25.535 E





Busteni ROMANIA

Colegiul Ion Kalinderu

Teacher : Iuliana

Students : Moise Alexandru Florin, Bogdan Emanuel

Noi suntem elevi la Colegiul Ion Kalinderu , Scoala Sanatoriala, Busteni, Romania, iar noi trimitem salutarile noastre . In scoala noastra invata aproximativ 100 de elevi cu vârste cuprinse între 3-16. Scoala este situata la doar 100 km distanță de Bucarest, inre-o frumoasa statiune montana. Suntem foarte mulțumiți și încântați să participamv la proiectul Eratostene 2016 si sa efectuam experimentului unuia dintre cei mai mari matematicieni greci, Eratosthenes. Este uimitor modul în care informația simplă poate rezolva o astfel de problema dificila. Suntem incantati ca avem posibilitatea de a colabora cu elevi i din multe țări ale lumii si sa ne imbogatim cunostintele stiintifice. Speram să continuam colaborarea noastra si în viitor.

Busteni 2

We are students from Colegiul Ion Kalinderu, Scoala Sanatoriala , Busteni, Romania and we are sending our greeting . Our school has 100 students aged 3-16. It is located only 100km away from the Bucarest. We are very pleasd and excited to participate in Eratosthenes 2016, reconducting the experiment of one of the greatest greek mathematicians , Eratosthenes. It is amazing how simple information can solve such a difficult problem. we are excited to have the opportunity to collaborate with students from other countries broadening our minds. I hope to continue our collaboration in future.

Busteni ROMANIA

Colegiul Ion Kalinderu

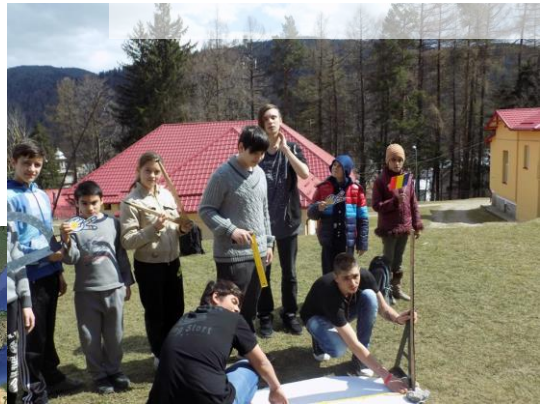
39 959 km

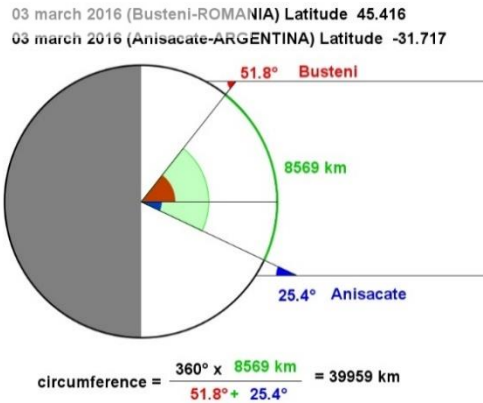
Teacher : Iuliana

Students : Mirea Alexandru, Bogdan Emanuel

+45.416 N

+25.535 E





Busteni 3

Petroupoli GREECE

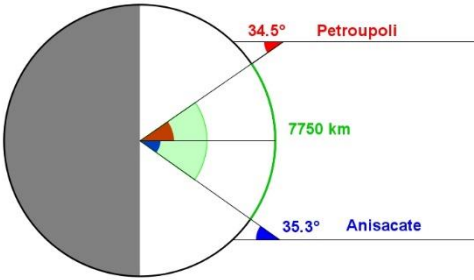
+38.036 N
+23.674 E

4th Junior High School of Petroupoli

Teacher : Athanasia

Students : Aimilia, Panagiotis, Ioannis

28 March 2016 (Petroupoli-GREECE) Latitude: 38.036
28 March 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360° \times 7750\ \text{km}}{34.5° + 35.3°} = 39971\ \text{km}$$

Petroupoli GREECE

4th Junior High School of Petroupoli

Teacher : Athanasia

Students : Aimilia, Panagiotis, Ioannis

Θερμούς χαιρετισμούς από τους μαθητές του Α3 τμήματος του 4ου Γυμνασίου Πετρούπολης!

Το σχολείο μας έχει 370 παιδιά ηλικίας 11-15 ετών και βρίσκεται στη Δυτική Αττική σ' έναν λόφο με θέα όλη την Αθήνα. Είναι η πρώτη χρονιά που συμμετέχουμε στο πρόγραμμα του Ερατοσθένη και είμαστε ενθουσιασμένοι γιατί ενισχύεται η προσπάθειά μας να καταλάβουμε τον πλανήτη μας, την έννοια του χρόνου, την ακρίβεια των μετρήσεων και άλλα από το αναλυτικό πρόγραμμα της Φυσικής, περισσότερο όμως, γιατί μας ανοίγεται ένα παράθυρο στον κόσμο, χωρίς φραγμούς.

Σας ευχαριστούμε για την ευκαιρία που μας δίνετε και ανυπομονούμε για τις συναντήσεις μας τα μεσημέρια.

petroupoli2

Our school has 370 students aged 11-15 and is located in Western Attica on a hill overlooking all of Athens. We are the students of A3 class and this is our first year in Eratosthenes project.

We are very excited knowing that our cooperation will support our efforts to understand basics about our planet, measurements and accuracy, time and more in Physics material of our curriculum… but we are more thrilled feeling we are members of a project that is a window to a world beyond borders. Looking forward meeting you out there…. during solar noons !

Petroupoli GREECE

4th Junior High School of Petroupoli

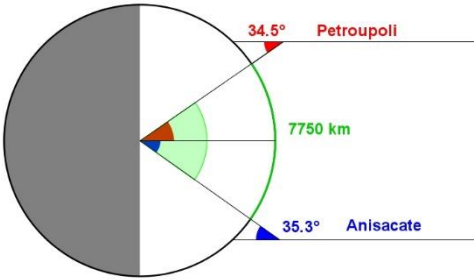
39 971 km

Teacher: Athanas

Students: Aimilia, Angelos, Ioannis

+38.036 N
+23.674 E

28 March 2016 (Petroupoli-GREECE) Latitude: 38.036
28 March 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360° \times 7750\ \text{km}}{34.5° + 35.3°} = 39971\ \text{km}$$

Athens GREECE

Museum of Ancient Greek Technology

Teacher : Athanasia

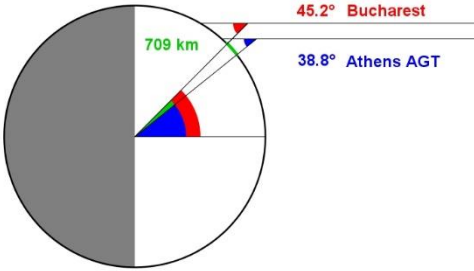
Students : Aimilia, Panagiotis, Ioannis

+38.075 N

+23.716 E

18 March 2016 (Bucharest-ROMANIA) Latitude: 44.443°

18 March 2016 (Athens AGT-GREECE) Latitude: 38.065°



$$\text{circumference} = \frac{360° \times 709\ \text{km}}{45.2° - 38.8°} = 39881\ \text{km}$$

Athens AGT 1

Aigio GREECE

1st High School of Aigio

Teacher : Aspasia

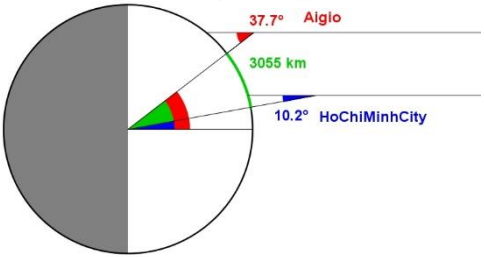
Student : Thanos

+38.252 N

+22.079 E

21 March 2016 (Aigio-GREECE) Latitude: 38.252°

21 March 2016 (HoChiMinhCity-VIETNAM) Latitude: 10.758°



circumference = $\frac{360° \times 3055\ km}{37.7° - 10.2°}$ = 39993 km

Aigio 1

Aigio GREECE

1st High School of Aigio

Teacher : Aspasia
Student : Thanos

Το Αίγιο είναι μία όμορφη, παραθαλάσσια πόλη στη Δυτική Ελλάδα με μεγάλη ιστορία. Θεωρείται “μπαλκόνι του Κορινθιακού κόλπου” καθώς είναι χτισμένο αμφιθεατρικά. Το σχολείο μας έχει περίπου 300 μαθητές (12-15 χρονών) και περίπου 30 καθηγητές. Πιστεύουμε ότι η “συμμετοχή των μαθητών” σε ποικίλες δραστηριότητες έχει πολύ μεγάλη σημασία για τη μόρφωσή τους. Χαιρόμαστε που συμμετέχουμε στο πρόγραμμα Ερατοσθένης, καθώς μας δίνει την ευκαιρία να επικοινωνήσουμε με σχολεία από άλλα μέρη στον κόσμο και να πλουτίσουμε τις γνώσεις μας σε πολλά διαφορετικά αντικείμενα. Είμαστε περήφανοι που επαναλαμβάνουμε το πείραμα του Ερατοσθένη, ενός από τους πιο γνωστούς αρχαίους προγόνους μας.

Aigio is a beautiful coastal city in western Greece with a long history. It is called "the balcony of the Corinthian Gulf" as it is amphitheatrically built on a slope. Our school has about 300 students (12-15 years old) and about 30 teachers. We believe that “the participation of students” in various activities is very important for their education. We enjoy being members of the Eratosthenes team because the Eratosthenes project gives us the opportunity to communicate with schools from other parts of the world and to enrich our knowledge on many diverse subjects. We are proud to repeat the experiment of Eratosthenes, one of our most known ancestors.

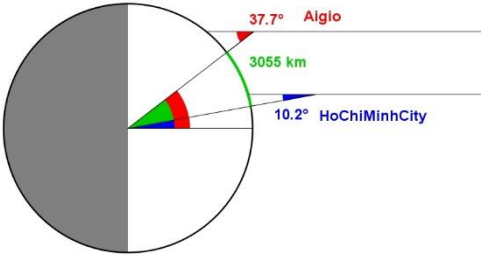
Aigio GREECE

1st High School of Aigio

39 993 km

+38.252 N
+22.079 E

21 March 2016 (Aigio-GREECE) Latitude: 38.252°
21 March 2016 (HoChiMinhCity-VIETNAM) Latitude: 10.758°



$$\text{circumference} = \frac{360° \times 3055\ \text{km}}{37.7° - 10.2°} = 39993\ \text{km}$$

Athens GREECE

Protypo Peiramatiko Gymnasio Agion Anargyron

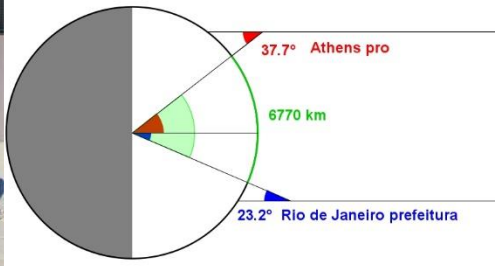
Teacher : Bill

Student : Eleni, Eleftheria, Dimitris

+38.027 N
+23.726 E

Athens A 1

21 March 2016 (Athens pro-GREECE) Latitude: 38.027
21 March 2016 (Rio de Janeiro prefeitura-BRASIL) Latitude: -22.911



$$\text{circumference} = \frac{360° \times 6770\ \text{km}}{37.7° + 23.2°} = 40020\ \text{km}$$

Athens GREECE Protypo Peiramatiko Gymnasio Agion Anargyron

Teacher : Bill

Student : Eleni, Eleftheria, Dimitris

Γειά σας από τους μαθητές του Α2 τμήματος του πειραματικού γυμνασίου Αγίων Αναργύρων. Είμαστε ένα μικρό σχολείο με 160 μαθητές γυμνασίου. Το σχολείο μας βρίσκεται κοντά στο κέντρο της Αθήνας στην περιοχή των Αγίων Αναργύρων.

Είναι η πρώτη μας χρονιά στο γυμνάσιο και συμμετέχουμε για πρώτη φορά σε ένα ευρωπαϊκό πρόγραμμα . Είμαστε λοιπόν πολύ ενθουσιασμένοι και με το περιεχόμενο του προγράμματος αλλά και με την ιδέα ότι θα μπορέσουμε να γνωρίσουμε μαθητές από όλο τον κόσμο.

Απ' ότι μάθαμε το σχολείο μας είναι η τρίτη χρονιά που συμμετέχει στο πρόγραμμα και μάλιστα με πολλή μεγάλη επιτυχία.

Θα προσπαθήσουμε και εμείς φέτος να φανούμε το ίδιο δραστήριοι όπως και οι προηγούμενοι συμμαθητές μας με πολλές και δημιουργικές δραστηριότητες Το τμήμα Α2

Σας καλωσορίζουμε και θα χαρούμε να σας γνωρίσουμε!!!

Athens A 2

Hello from the students of the experimental high school Agion Anargiron the class A2

We are a small school with 160 students of high school. Our school is located near the center of Athens (3-4 Km), in the area of Agioi Anargyroi.

It is our first year in high school and we are participating for the first time in a European program. So we are very excited not only with the content of the program but also with the idea that we will be able to meet students from all over the world.

As we learned it is the third year that our school is participating to the program and with great success. We will try also this year to be as active as the previous classmates with many creative activities

The class A2

We are welcoming you and we will be happy to meet you!!!

Athens GREECE

Protypo Peiramatiko Gymnasio Agion Anargyron

40 020 km

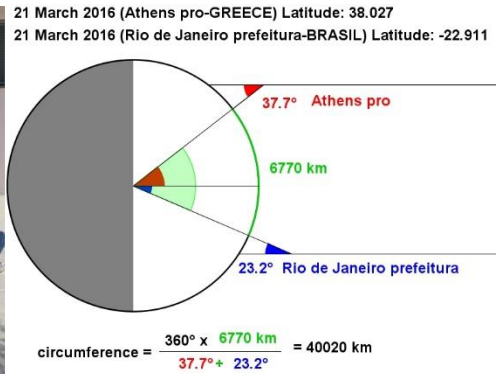
Te[illegible] Bi[illegible]

St[illegible], El[illegible]mitris

+38.027 N

+23.726 E

Athens A 3



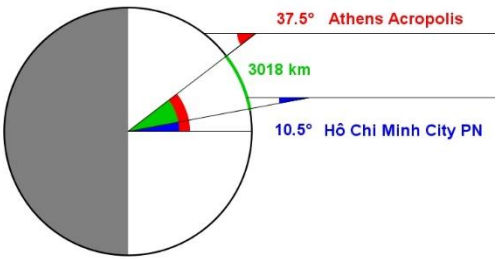
Delphi GREECE

Delphi Temple

Teacher : Bill

+38,482 N
+22,501 E

21 march 2015 (Athens Acropolis-GREECE)
21 march 2015 (Hô Chi Minh City PN-VIETNAM)



$$\text{circumference} = \frac{360° \times 3018\ \text{km}}{37.5° - 10.5°} = 40240\ \text{km}$$

Delphi 1

Athens GREECE

3rd Junior High School of Ilion

Teacher : Petros

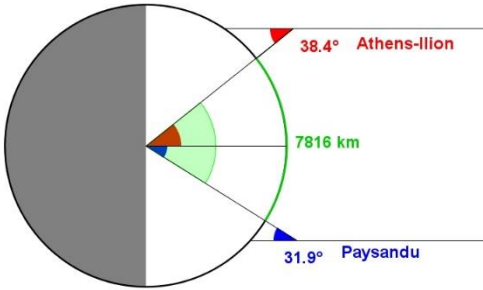
Students : Emilia, Kelly, Michaella

+38.037 N

+23.712 E

21 March 2016 (Athens-Ilion-GREECE) Latitude: 38.037

21 March 2016 (Paysandu-URUGUAY) Latitude: -32.316



$$\text{circumference} = \frac{360° \times 7816\ \text{km}}{38.4° + 31.9°} = 40025\ \text{km}$$

Athens GREECE

3rd Junior High School of Ilion

Teacher : Petros
Students : Emilia, Kelly, Michaella

Είμαστε μαθητές από το 3ο Γυμνάσιο Ιλίου ,Ελλάδα και σας στέλνουμε τους χαιρετισμούς μας. Το σχολείο μας έχει 300 μαθητές ηλικίας 12-15 ετών. Βρίσκεται μόλις 7 χλμ από την Ακρόπολη της Αθήνας.

Είμαστε ευτυχείς και ενθουσιασμένοι που συμμετέχουμε στο Eratosthenes 2016, επαναλαμβάνοντας το πείραμα ενός από τους μεγαλύτερους Έλληνες μαθηματικούς , του Ερατοσθένη.

Είναι εκπληκτικό πως μια απλή πληροφορία μπορεί να λύσει ένα τόσο δύσκολο πρόβλημα.

Είμαστε ενθουσιασμένοι που έχουμε την ευκαιρία να συνεργαστούμε με μαθητές από άλλες χώρες διευρύνοντας τους πνευματικούς μας ορίζοντες.

Εύχομαι να συνεχίσουμε την συνεργασία μας και σε άλλα προγράμματα.

We are students from 3rd Junior High School of Ilion, Greece , and we are sending our greetings. Our school has 300 students aged 12-15. It is located only 7 km away from the Acropolis ,Athens.

We are very pleased and excited to participate in Eratosthenes 2016 , re-conducting the experiment of one of the greatest Greek mathematicians, Eratosthenes.

It is amazing how simple information can solve such a difficult problem .

We are excited to have the opportunity to collaborate with students from other countries broadening our minds.

I hope to continue our collaboration in other projects in the future.

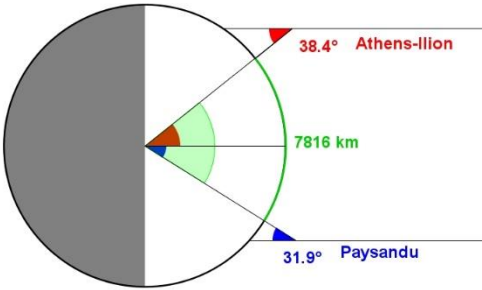
Athens GREECE

3rd Junior High School of Ilion

40 025 km

+38.037 N
+23.712 E

21 March 2016 (Athens-Ilion-GREECE) Latitude: 38.037
21 March 2016 (Paysandu-URUGUAY) Latitude: -32.316



$$\text{circumference} = \frac{360° \times 7816\ \text{km}}{38.4° + 31.9°} = 40025\ \text{km}$$

Athens I 3

Ioannina GREECE

Collège Pilote Expérimental Zosimaias

Teacher : Eleni

Students : Maria et Ioanna

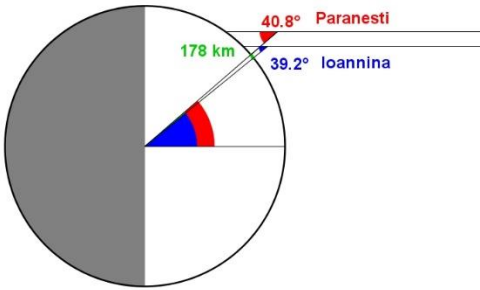
+39.667 N

+20.850 E

ioannina1

21 March 2016 (Paranesti-GREECE) Latitude: 41.266°

21 March 2016 (Ioannina-GREECE) Latitude: 39.667°



circumference = $\frac{360° \times 178\ km}{40.8° - 39.2°}$ = 40050 km

Ioannina GREECE

Collège Pilote Expérimental Zosimaias

Teacher : Eleni

Students : Maria et Ioanna

Γεια σας σε όλους!

Είμαστε οι μαθητές και οι μαθήτριες του Γ3 του Πρότυπου Γυμνασίου «Ζωσιμαίας Σχολής» Ιωαννίνων. Η πόλη μας βρίσκεται ΒΔ της Ελλάδας.

Από τον Ιανουάριο του 2013, υλοποιείται το πρόγραμμα «Eratosthènes » στο σχολείο μας και είμαστε ιδιαίτερα χαρούμενοι που το συνεχίζουμε.

Bonjour tout le monde !

Nous sommes les élèves de G3 du Collège Modèle de « Zosimaias Scholis » d'Ioannina qui se trouve au centre de la ville d'Ioannina. Notre ville est située au Nord-Ouest de la Grèce.

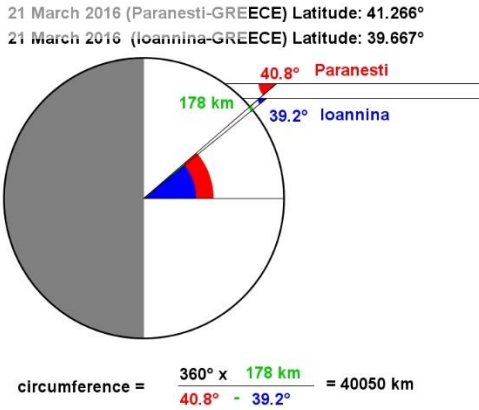
Le projet « Eratosthènes » est mené par les élèves de notre collège depuis janvier 2013 et on est heureux d'y participer.

Ioannina GREECE

Collège Pilote Expérimental Zosimaias

40 050 km

+39.667 N
+20.850 E



Ioannina 3

Piraeus GREECE

+37.977 N
+23.655 E

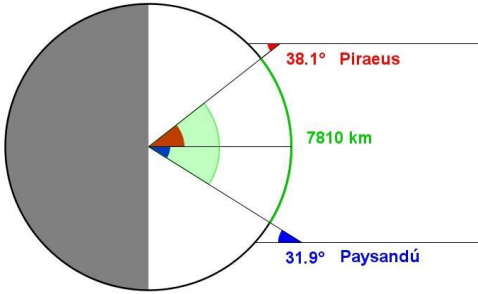
2nd Junior High School of Korydallos

Teacher : Katerina

Students : Nafsika, Elissavet

21 March 2016 (Piraeus-GREECE) Latitude: 37.977

21 March 2016 (Paysandú-URUGUAY) Latitude: -32.316



$$\text{circumference} = \frac{360° \times 7810\ \text{km}}{38.1° + 31.9°} = 40166\ \text{km}$$

Piraeus GREECE

2nd Junior High School of Korydallos

Teacher : Katerina

Students : Nafsika, Elissavet

Φίλοι μας γεια σας!
Είμαστε η ομάδα των μαθητών της Β’ τάξης του 2ου Γυμνασίου Κορυδαλλού που κατά το 2015 κάναμε κάποιες μετρήσεις για το Eratosthenes Earth Experiment. Μας άρεσε πολύ και θα θέλαμε να συνεχίσουμε τη συμμετοχή μας. Χρησιμοποιήσαμε γεωμετρικά όργανα, κάναμε μαθηματικά στην πράξη, αλλά περισσότερο απ’ όλα μας άρεσε η συνεδρία που είχαμε με εσάς. Το σχολείο μας είναι από τα παλιότερα στον Κορυδαλλό, το κτήριο είναι παλιό, αλλά εμείς είμαστε νέοι, δυνατοί, ενθουσιώδεις και αισιόδοξοι!
Καλές μετρήσεις σε όλους και καλή δουλειά!!!

Greetings to all our friends!
We are the team of 2nd grade students, of the 2nd Junior High in Korydallos, that made some measurements for the Eratosthenes Earth Experiment, in 2015. We liked the process very much and we would like to keep participating in the experiment. We used geometrical instruments, we made Maths come alive, but most of all, we enjoyed the conference we had with you. Our school is one of the oldest schools in Korydallos, and the building is quite ancient, but we are young, strong, enthusiastic and optimistic!
Have great measurements!!!

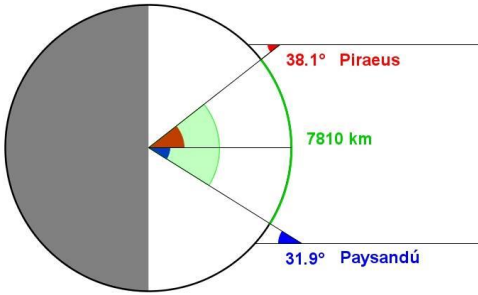
Piraeus GREECE

2nd Junior High School of Korydallos

40 166 km

+37.977 N
+23.655 E

21 March 2016 (Piraeus-GREECE) Latitude: 37.977
21 March 2016 (Paysandú-URUGUAY) Latitude: -32.316



$$\text{circumference} = \frac{360° \times 7810\ \text{km}}{38.1° + 31.9°} = 40166\ \text{km}$$

Athens GREECE

Emotions Museum of Childhood

Teacher : Katerina

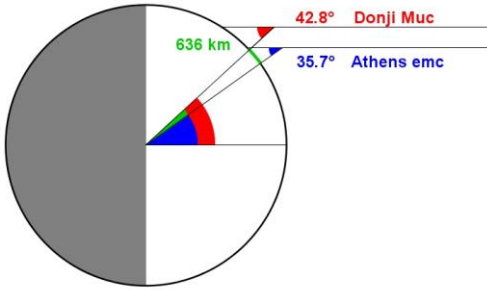
Students : Nafsika, Elissavet

+38.065 N

+23.655 E

30 March 2016 (Donji Muc-CROATIA) Latitude: 43.694°

30 March 2016 (Athens emc-GREECE) Latitude: 37.966°



$$\text{circumference} = \frac{360° \times 636\ \text{km}}{42.8° - 35.7°} = 32248\ \text{km}$$

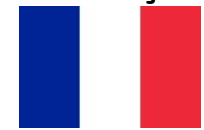
Athens emc 1

Lafrançaise FRANCE

Collège Antonin Perbosc

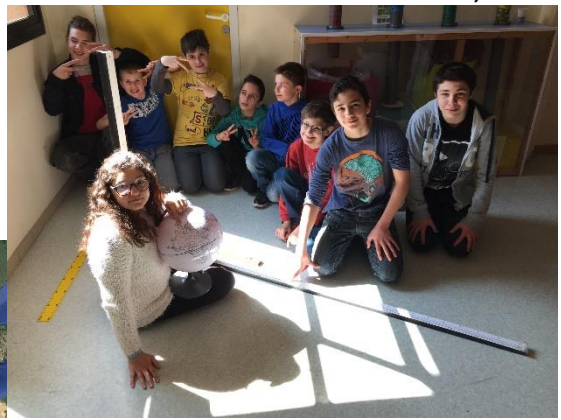
Teacher : Eric

Student : Alexis, Laelien



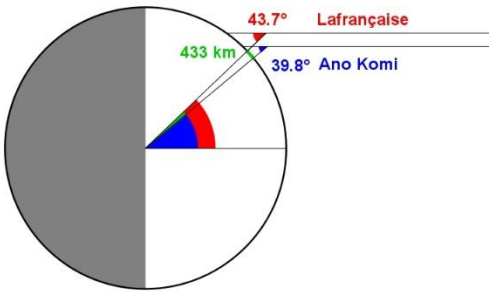
+44.127 N

+1.237 E



21 March 2016 (Lafrançaise-FRANCE) Latitude: 44.127°

21 March 2016 (Ano Komi-GREECE) Latitude: 40.226°

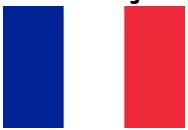


$$\text{circumference} = \frac{360° \times 433\ \text{km}}{43.7° - 39.8°} = 39969\ \text{km}$$

Lafrancaise 1

Lafrançaise FRANCE

Collège Antonin Perbosc



Teacher : Eric

Student : Alexis, Laelien

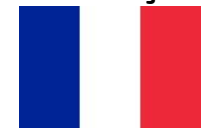
Nous sommes les élèves du club eTwinning de notre collège, à Lafrançaise. Le collège est situé dans le sud-ouest de la France, à 70km de Toulouse, à la campagne. Il accueille environ 400 élèves âgés de 11 à 15 ans. Nous participons depuis plusieurs années au projet Eratosthène.

We are the students of the eTwinning club of our college, in Lafrançaise. The college is located in the southwest of France, 70km from Toulouse, in the countryside. It hosts about 400 students aged 11-15 years. We have been participating for many years to the Eratosthenes project.

Lafrançaise FRANCE

Collège Antonin Perbosc

39 969 km

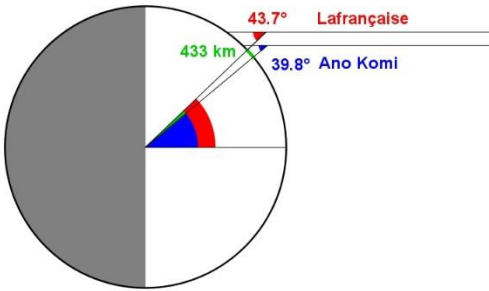


+44.127 N

+1.237 E

21 March 2016 (Lafrançaise-FRANCE) Latitude: 44.127°

21 March 2016 (Ano Komi-GREECE) Latitude: 40.226°



$$\text{circumference} = \frac{360° \times 433\ \text{km}}{43.7° - 39.8°} = 39969\ \text{km}$$

Lafrancaise 3

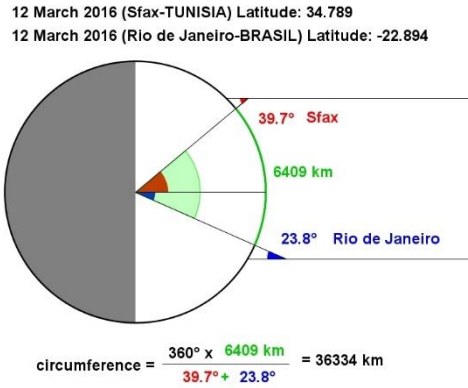
Sfax TUNISIA

+34,789 N
+10.780 E

Ecole primaire Sakiet Eddayer

Teacher : Kawthar

Students : Emna,Mohamed Amine



Sfax 1

Sfax TUNISIA

Ecole primaire Sakiet Eddayer

Teacher : Kawthar

Students : Emna,Mohamed Amine

السلام عليم .مرحبا بكم جميعا يشرفنا وجودنا معكم من تونس نحن تلاميذ السنة الخامسة ج بالمدرسة الابتدائية ساقية الدائر لنا الشرف في ان نمثل قسمنا و مدرستنا نحن 25 تلميذا تتراوح اعمارنا بين 10 و 11 سنة . تعد مدرستنا من اقدم المدارس بجهة صفاقس . بنيت سنة 1923 لتستقبل التلاميذ من ذوي الجنسيتين التونسية و الفرنسية ولهذا سميت المدرسة الفرنسية العربية . تتكون مدرستنا حاليا من 11 قاعة درس ومخبر للاعلامية وساحة للراحة ومركب صحي و ملعب صغير مخصص للرياضة . تستقبل المدرسة 548 تلميذا يتولى تدريسهم 33 مدرس . وشكرا مجددا والى اللقاء

Hello everybody. We are students of the 5th year of primary school C Sakiet Eddayer. We have the honor to introduce our class and our school. It has 25 students aged 10 to 11 years. Our school is one of the oldest primary schools in the city of Sfax. It was founded in 1923 to accommodate students of French and Tunisian nationality. It was then called the Franco Arabic school. Our school now has 11 classrooms, a computer lab, a playground, a toilet block and a small sports field. It welcomes 548 students and 33 teachers.
Thank you

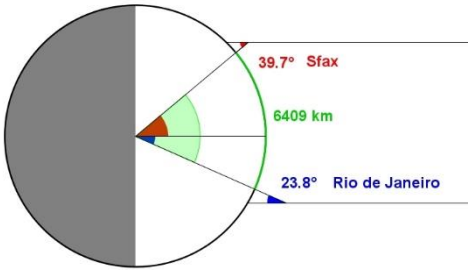
Sfax TUNISIA

Ecole primaire Sakiet Eddayer

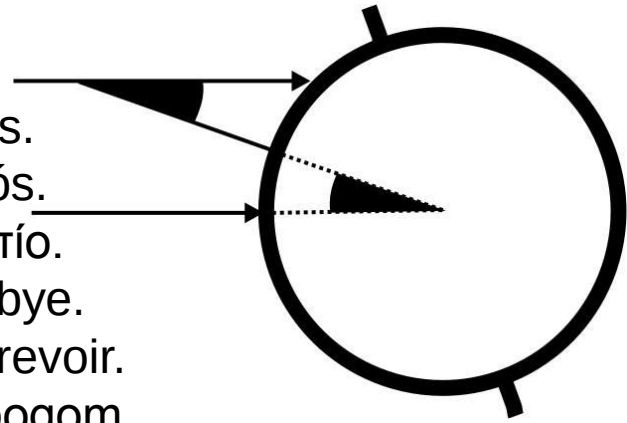
36 334 km

+34,789 N
+10.780 E

12 March 2016 (Sfax-TUNISIA) **Latitude: 34.789**
12 March 2016 (Rio de Janeiro-BRASIL) Latitude: -22.894



$$\text{circumference} = \frac{360° \times 6409\ \text{km}}{39.7° + 23.8°} = 36334\ \text{km}$$

Sfax 3

شكرا. حان وقت الرحيل.
Grazie. E 'ora di dire addio
Obrigado. Hora de dizer adeus.
Gracias. Es hora de decir adiós.
Ευχαριστώ. Ώρα να πούμε αντίο.
Thank you. Time to say good bye.
Merci. Il est temps de dire au revoir.
Hvala. To je vrijeme za reći zbogom.
Cảm ơn bạn. Đã đến lúc nói lời từ biệt.
Terima kasih. Masa untuk mengucapkan selamat tinggal.