

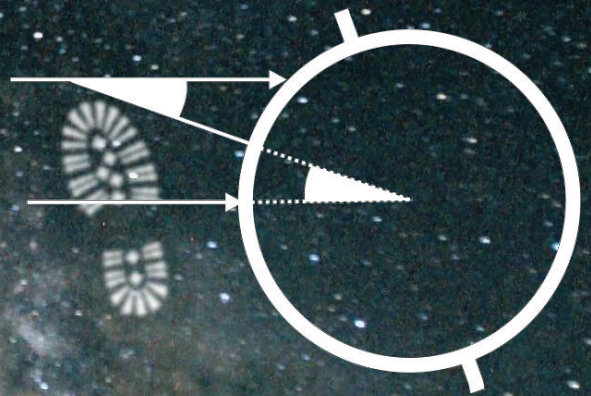
# Eratostrhenes

world space week 2016

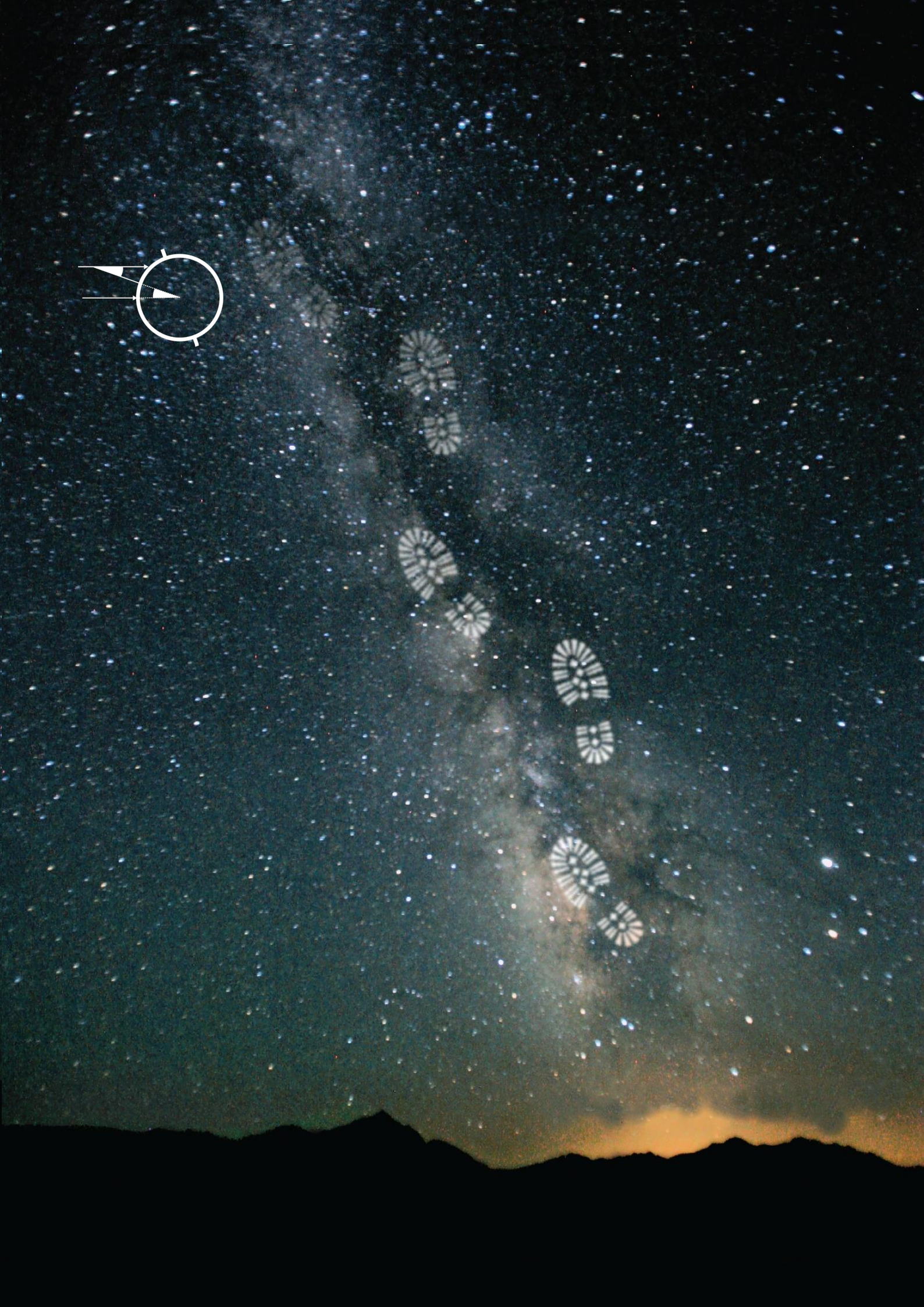


4-10 October  
[eventID=11362](#)

Anisacate ARGENTINA  
Busteni ROMANIA  
Brstanovo CROATIA  
Hyderabad INDIA  
Lafrançaise FRANCE  
Merlara ITALY  
Petroupoli GREECE  
Piraeus GREECE  
Rio de Janeiro BRAZIL  
Yamunanagar INDIA









# Yamunanagar India



Swami Vivekanand Public School  
Mukand Lal Public School  
Holy Mother Public School



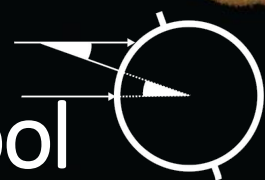
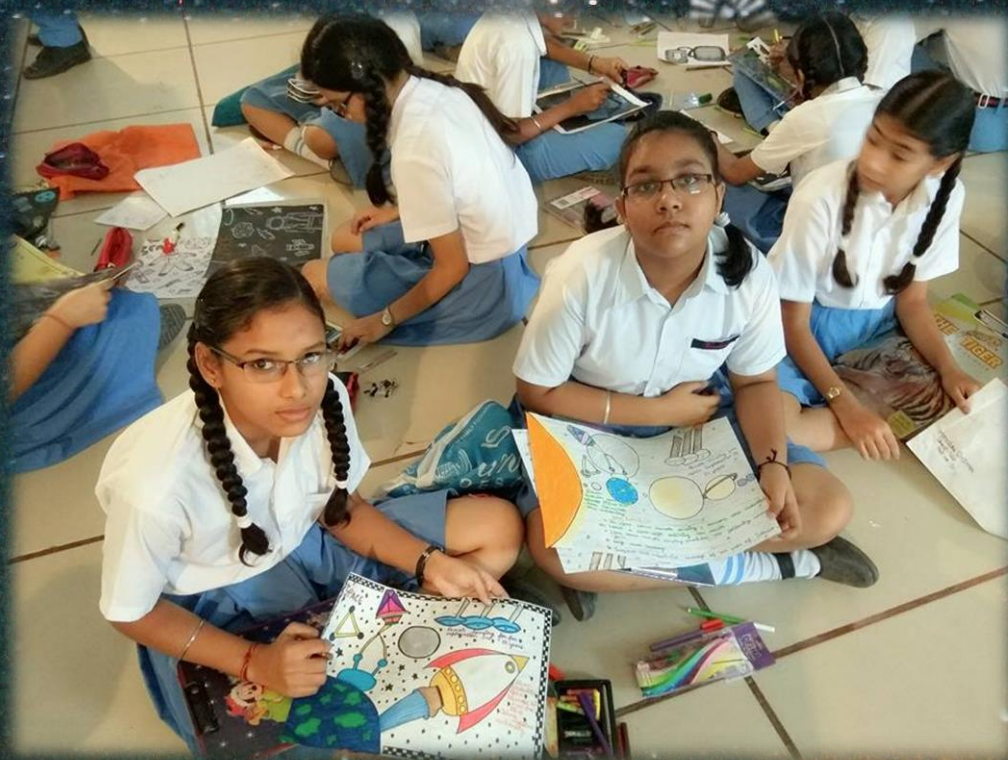


# Space Design

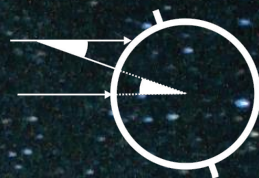


Swami Vivekanand Public School



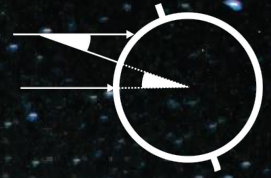






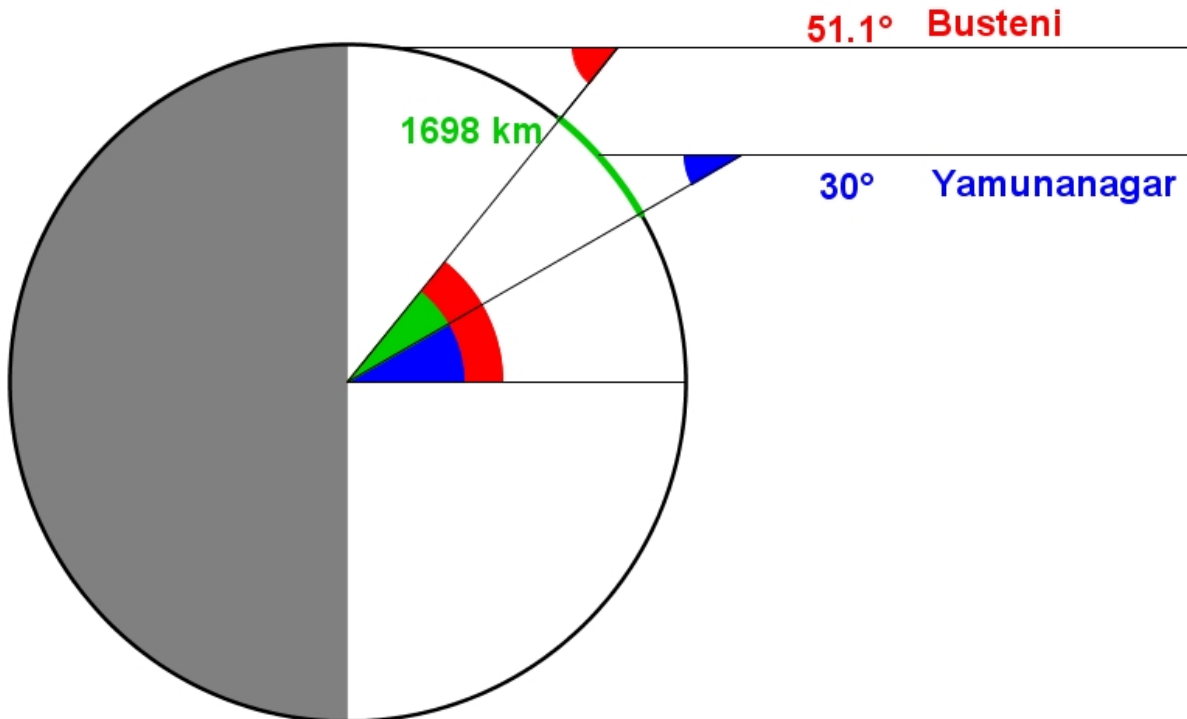
Swami Vivekanand Public School





06 October 2016 (Busteni- ROMANIA) Latitude 45.416

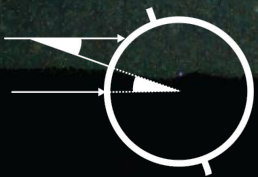
06 October 2016 (Yamunanagar- INDIA) Latitude 30.133



$$\text{circumference} = \frac{360^\circ \times 1698 \text{ km}}{51.1^\circ - 30^\circ} = 28971 \text{ km}$$

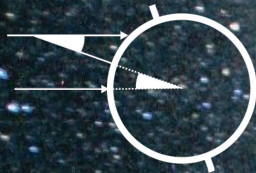
$$\text{circumference} = \frac{360^\circ \times 1698 \text{ km}}{51.1^\circ - 30^\circ} = 28971 \text{ km}$$





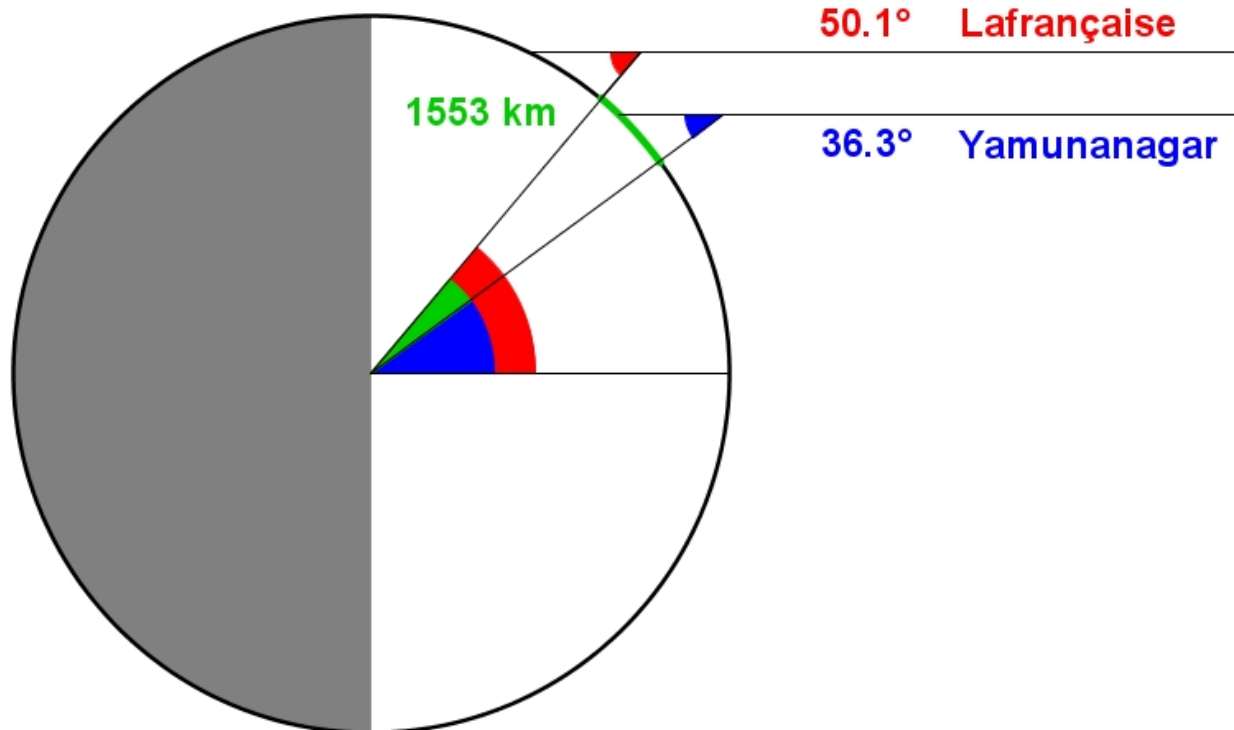
Holy Mother Public School





07 October 2016 (Lafrançaise- FRANCE) Latitude 44.127

07 October 2016 (Yamunanagar- INDIA) Latitude 30.145

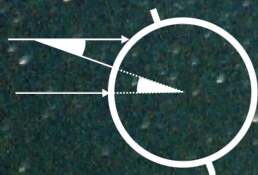


$$\text{circumference} = \frac{360^\circ \times 1553 \text{ km}}{50.1^\circ - 36.3^\circ} = 40513 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 1553 \text{ km}}{50.1^\circ - 36.3^\circ} = 40513 \text{ km}$$

Holy Mother Public School





Mukand Lal Public School





Mukand Lal Public School



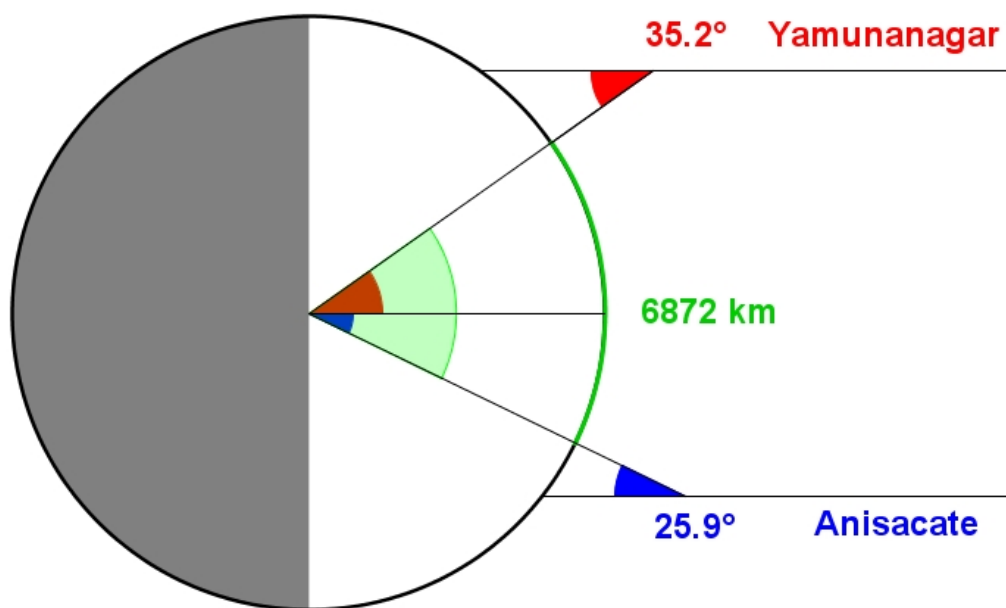


Mukand Lal Public School



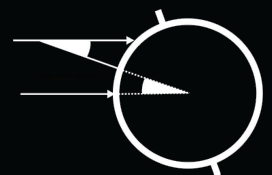
08 October 2016 (Yamunanagar-INDIA) Latitude: 30.133

08 October 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360^\circ \times 6872 \text{ km}}{35.2^\circ + 25.9^\circ} = 40490 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 6872 \text{ km}}{35.2^\circ + 25.9^\circ} = 40490 \text{ km}$$



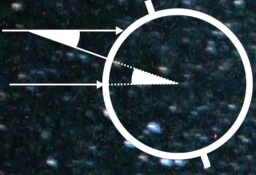


# Hyderabad India



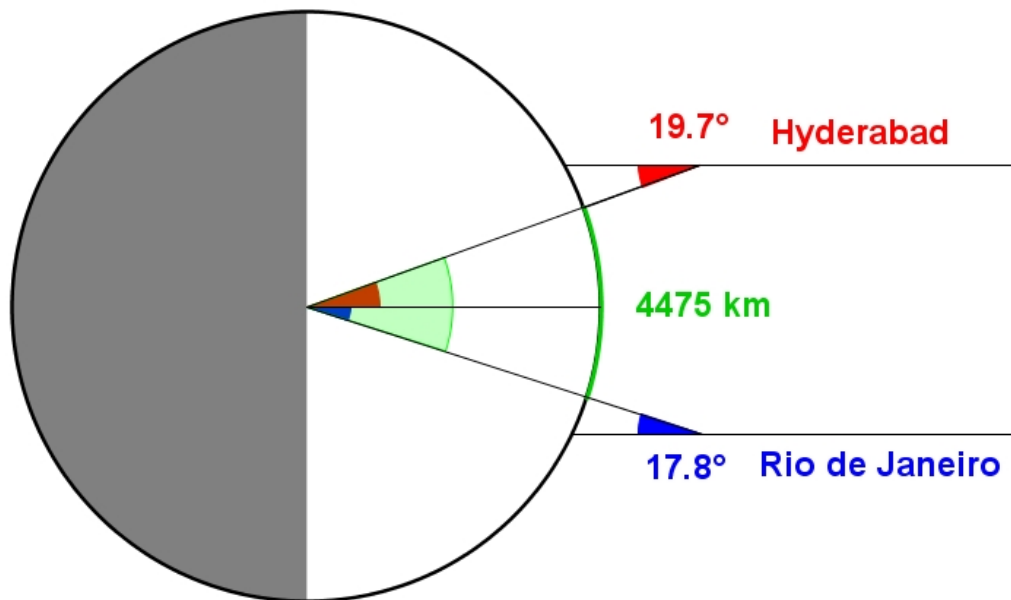
Space Adhyaan





07 October 2016 (Hyderabad-INDIA) Latitude: 17.385

07 October 2016 (Rio de Janeiro-BRAZIL) Latitude: -22.89



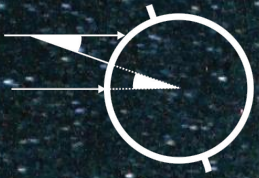
$$\text{circumference} = \frac{360^\circ \times 4475 \text{ km}}{19.7^\circ + 17.8^\circ} = 42960 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 4475 \text{ km}}{19.7^\circ + 17.8^\circ} = 42960 \text{ km}$$

# Space Adhyaan



# Rio de Janeiro Brazil



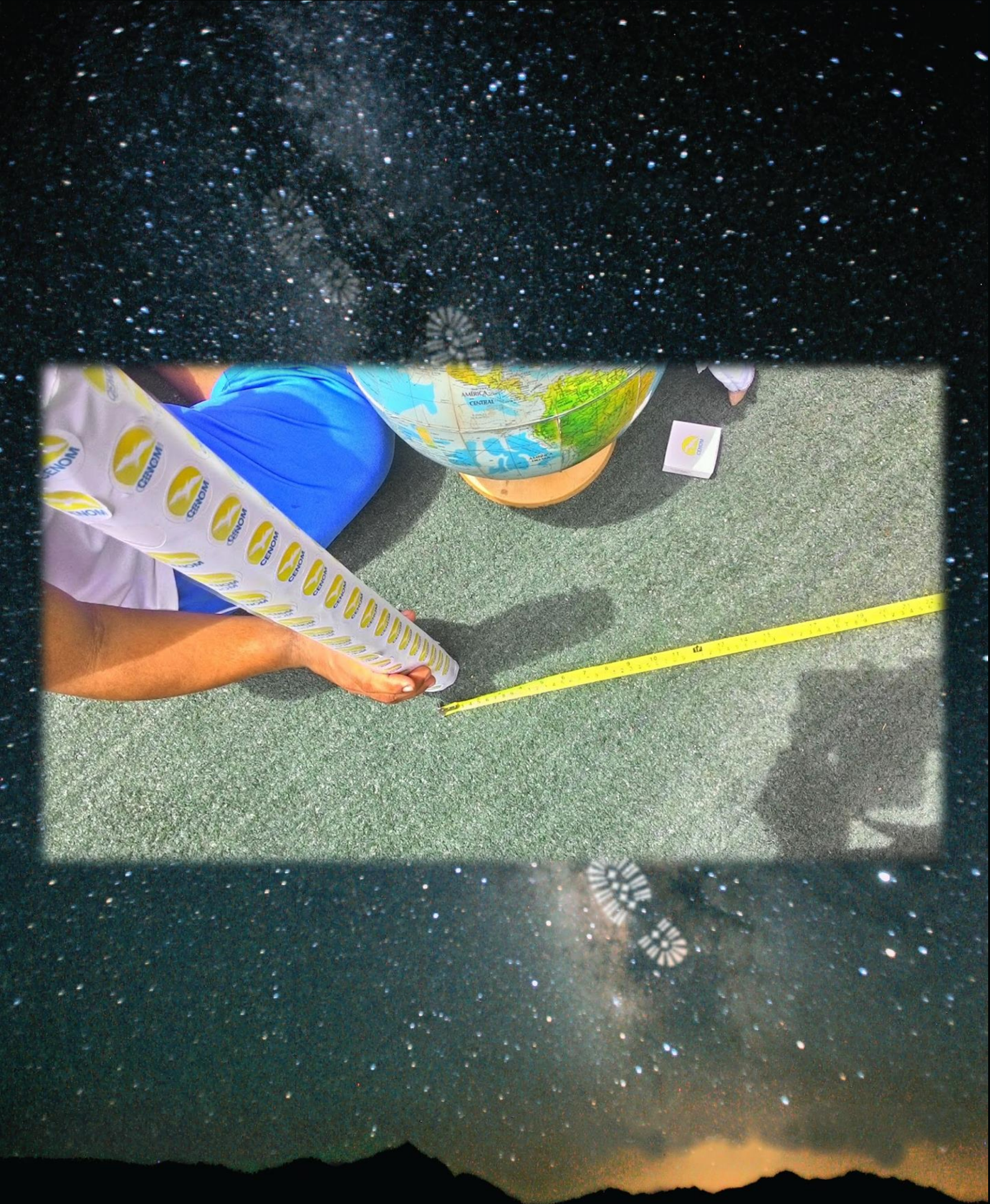
Centro Educacional Nosso Mundo





Centro Educacional Nosso Mundo



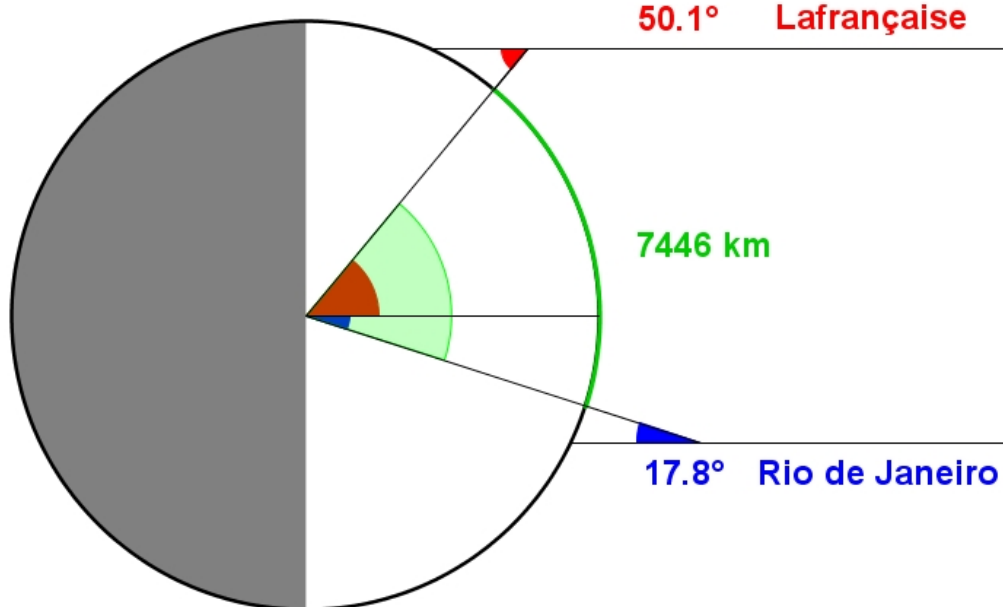


Centro Educacional Nosso Mundo



07 October 2016 (Lafrançaise-FRANCE) Latitude: 44.127

07 October 2016 (Rio de Janeiro-BRAZIL) Latitude: -22.89



$$\text{circumference} = \frac{360^\circ \times 7446 \text{ km}}{50.1^\circ + 17.8^\circ} = 39478 \text{ km}$$

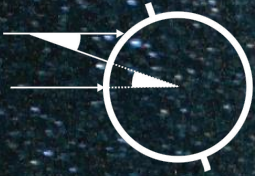
$$\text{circumference} = \frac{360^\circ \times 7446 \text{ km}}{50.1^\circ + 17.8^\circ} = 39478 \text{ km}$$



Centro Educacional Nosso Mundo

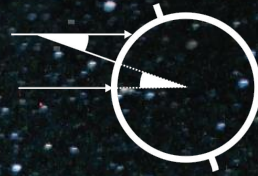


# Piraeus Greece



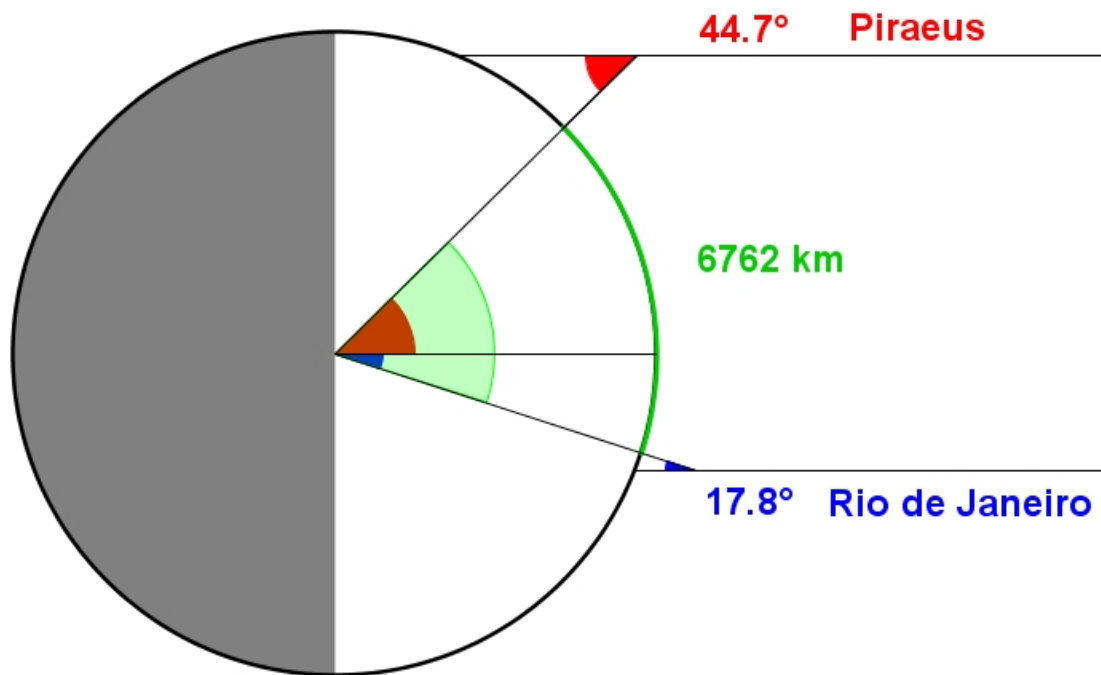
2nd Junior High School of Korydallos





07 October 2016 (Piraeus-GREECE) Latitude: 37.977

07 October 2016 (Rio de Janeiro-BRAZIL) Latitude: -22.89

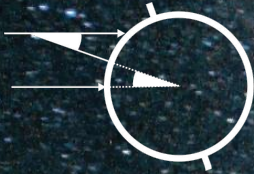


$$\text{circumference} = \frac{360^\circ \times 6762 \text{ km}}{44.7^\circ + 17.8^\circ} = 38949 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 6762 \text{ km}}{44.7^\circ + 17.8^\circ} = 38949 \text{ km}$$

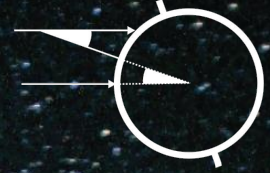


# Petroupoli Greece



4th Junior High School





06 October 2016 (Busteni- ROMANIA) Latitude 45.416

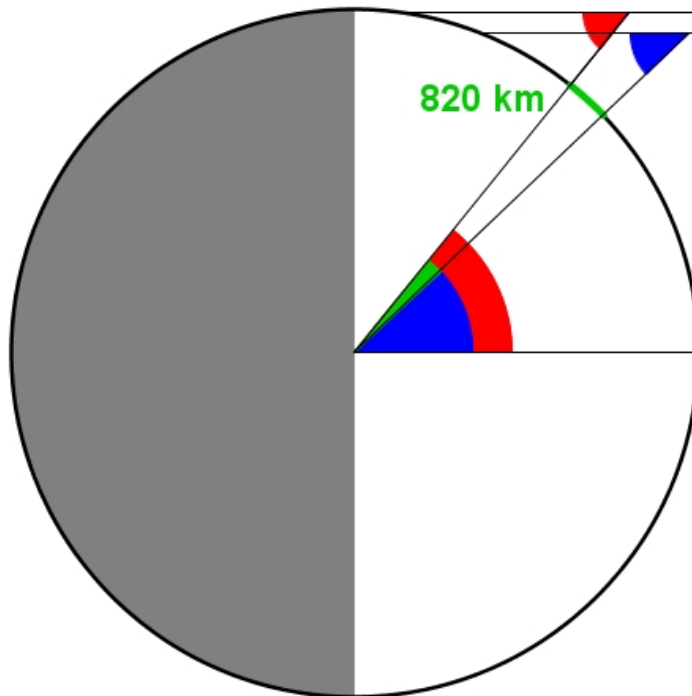
06 October 2016 (Petrupoli- GREECE) Latitude 38.036

51.1°

Busteni

43.7°

Petrupoli



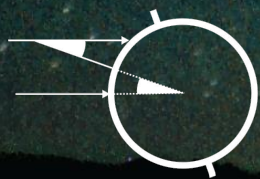
$$\text{circumference} = \frac{360^\circ \times 820 \text{ km}}{51.1^\circ - 43.7^\circ} = 39892 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 820 \text{ km}}{51.1^\circ - 43.7^\circ} = 39892 \text{ km}$$

4th Junior High School



# Brstanovo Croatia



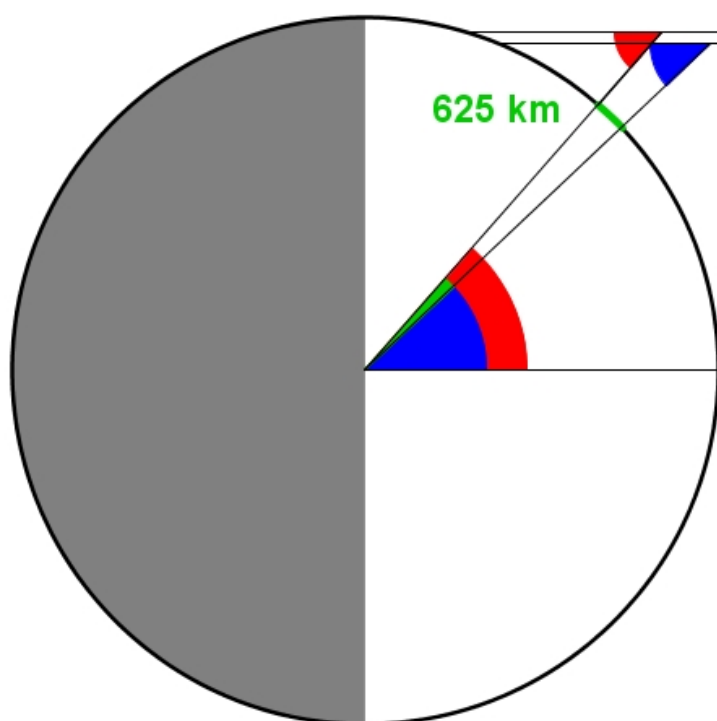
Osnovna škola kneza Branimira





05 October 2016 (Brstanovo- CROATIA) Latitude 43.658

05 October 2016 (Petrupoli- GREECE) Latitude 38.036



48.7° Brstanovo

43.4° Petrupoli

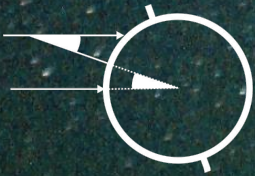
$$\text{circumference} = \frac{360^\circ \times 625 \text{ km}}{48.7^\circ - 43.4^\circ} = 42453 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 625 \text{ km}}{48.7^\circ - 43.4^\circ} = 42453 \text{ km}$$

Osnovna škola kneza Branimira

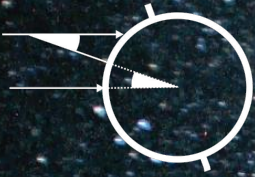


# Merlara Italy



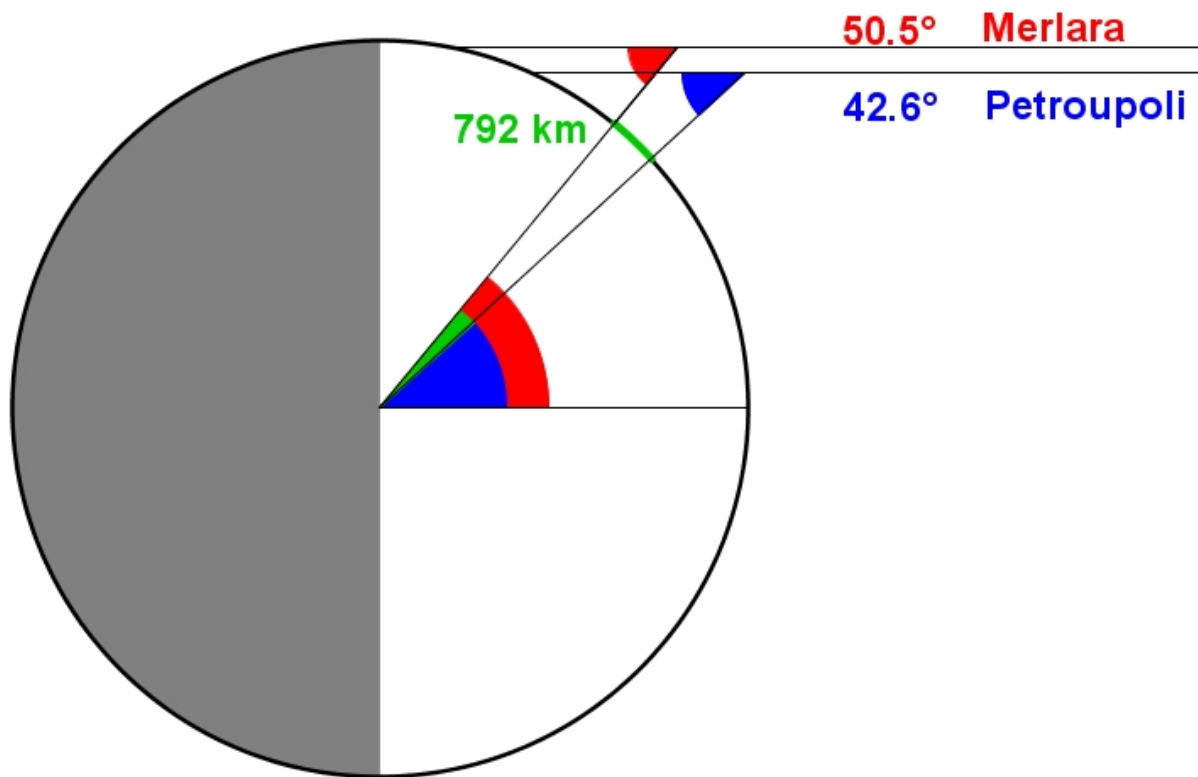
Lower Secondary School Dante Alighieri





04 October 2016 (Merlara- ITALY) Latitude 45.166

04 October 2016 (Petrupoli- GREECE) Latitude 38.036



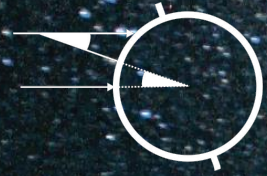
$$\text{circumference} = \frac{360^\circ \times 792 \text{ km}}{50.5^\circ - 42.6^\circ} = 36091 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 792 \text{ km}}{50.5^\circ - 42.6^\circ} = 36091 \text{ km}$$

Lower Secondary School Dante Alighieri

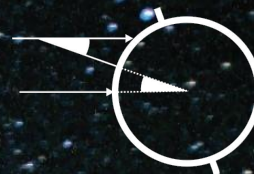


# Lafrançaise France



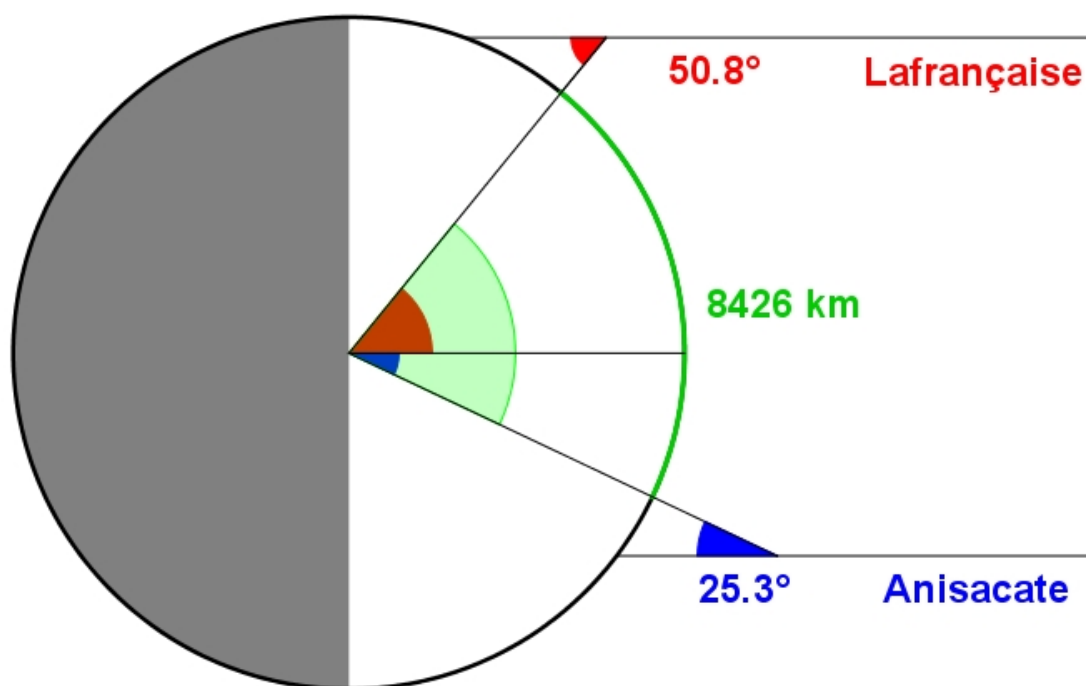
Collège Antonin Perbosc





10 October 2016 (Lafrançaise-FRANCE) Latitude: 44.127

10 October 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360^\circ \times 8426 \text{ km}}{50.8^\circ + 25.3^\circ} = 39860 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 8426 \text{ km}}{20.8^\circ + 52.3^\circ} = 39860 \text{ km}$$

Collège Antonin Perbosc



# Busteni Romania



Colegiul Ion Kalinderu, Scoala Gimnaziala  
Sanatoriala



06 October 2016 (Busteni- ROMANIA) Latitude 45.416

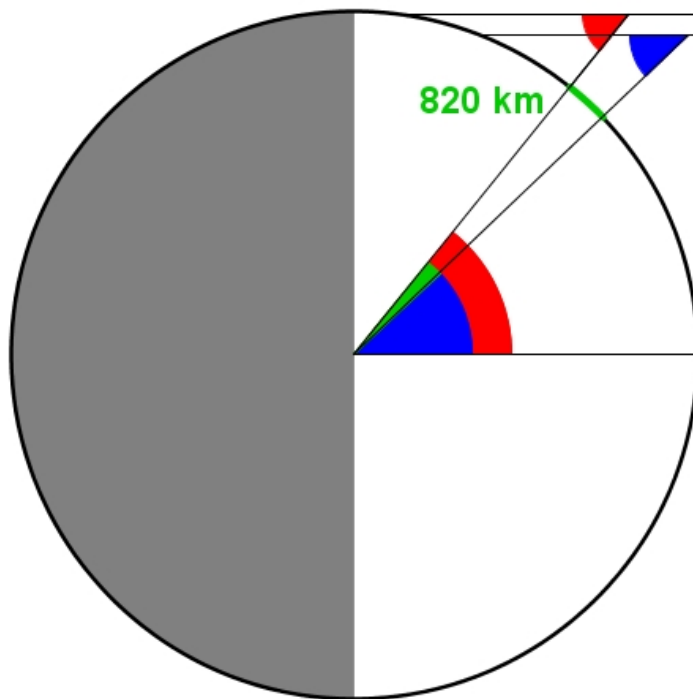
06 October 2016 (Petrupoli- GREECE) Latitude 38.036

51.1°

Busteni

43.7°

Petrupoli



$$\text{circumference} = \frac{360^\circ \times 820 \text{ km}}{51.1^\circ - 43.7^\circ} = 39892 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 820 \text{ km}}{51.1^\circ - 43.7^\circ} = 39892 \text{ km}$$

Colegiul Ion Kalinderu, Scoala Gimnaziala  
Sanatoriala



# Anisacate Argentina

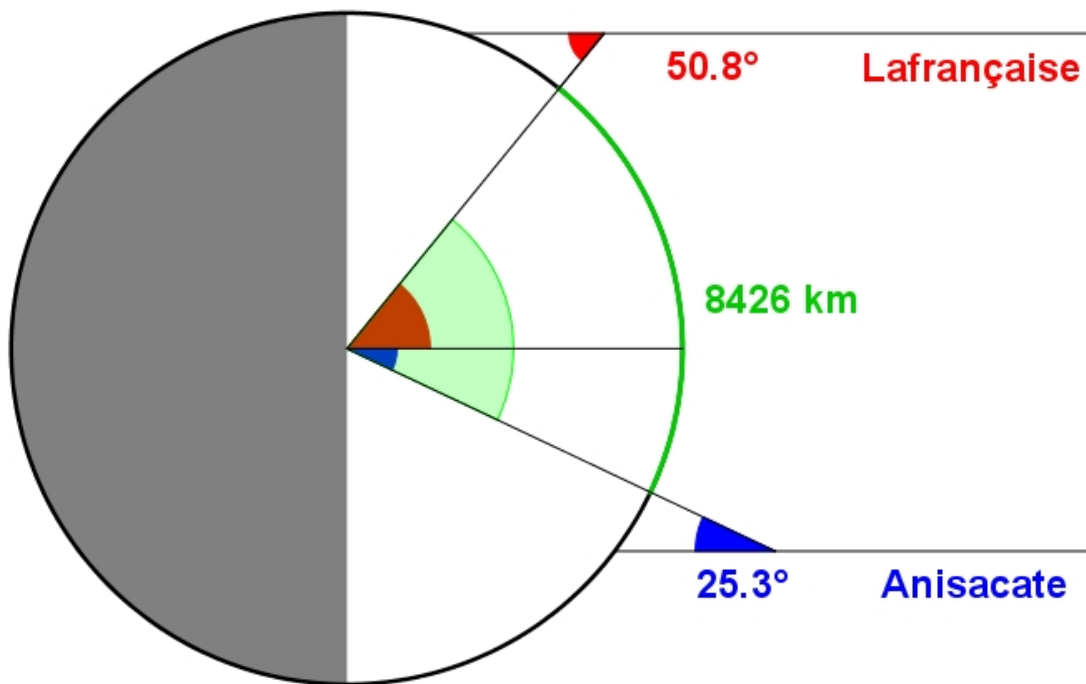


Fundación Caminos de Anisacate



10 October 2016 (Lafrançaise-FRANCE) Latitude: 44.127

10 October 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360^\circ \times 8426 \text{ km}}{50.8^\circ + 25.3^\circ} = 39860 \text{ km}$$

$$\text{circumference} = \frac{360^\circ \times 8426 \text{ km}}{20.8^\circ + 25.3^\circ} = 39860 \text{ km}$$

Fundación Caminos de Anisacate



# Results

City	Country	School	Latitude (+N/-S) decimal(°)	Longitude (+E/-W) decimal(°)	Date	Gnomon height [cm ]	Shadow length [cm ]	Angle (°)
Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535	04/10/2016	23.0	27.5	50.1
Merlara	Italy	Lower Secondary School "D. Alighieri"	45.166	11.433	04/10/2016	100.0	121.5	50.5
Lafrançaise	France	Collège Antonin Perbosc	44.127	1.238	04/10/2016	100.0	114.7	48.9
Petroupoli	Greece	4th Junior High School of Petroupolis	38.036	23.674	04/10/2016	52.3	48.1	42.6

		Busteni	Merlara	Lafrançaise	Petroupoli	
	Angle >	50.1	50.5	48.9	42.6	
	Latitude V					
Busteni	45.416		-25200	42900	39360	C
Merlara	45.166	28		25875	36091	I
Lafrançaise	44.127	143	115		38686	R
Petroupoli	38.036	820	792	677		C
				DISTANCE		

04 October 2016



# Results

City	Country	School	Latitude (+N/-S) decimal(°)	Longitude (+E/-W) decimal(°)	Date	Gnomon height [cm]	Shadow length [cm]	Angle (°)
Brštanovo	Croatia	PS kneza Branimira	43.658	16.415	05/10/2016	100.0	114.0	48.7
Petroupoli	Greece	4th Junior High School of Petroupolis	38.036	23.674	05/10/2016	52.3	49.5	43.4

		Brštanovo	Petroupoli	
	Angle >	48.7	43.4	
	Latitude V			
Brštanovo	43.658		42453	C
Petroupoli	38.036	625		I
		DISTANCE		

05 October 2016



City	Country	School	Latitude (+N/-S) decimal(°)	Longitude (+E/-W) decimal(°)	Date	Gnomon height [cm ]	Shadow length [cm ]	Angle (°)
Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535	06/10/2016	23.0	28.5	51.1
Petroupoli	Greece	4th Junior High School of Petroupolis	38.036	23.674	06/10/2016	52.3	50.0	43.7
Yamunanagar	India	S.V.N.Public School Jagadhri	30.133	77.283	06/10/2016	67.5	38.9	30.0

		Busteni	Petroupoli	Yamunanagar	
	Angle >	51.1	43.7	30.0	
	Latitude V				
Busteni	45.416		39892	28971	C
Petroupoli	38.036	820		23072	I
Yamunanagar	30.133	1698	878		R
			DISTANCE		

06 October 2016



City	Country	School	Latitude (+N/-S) decimal(°)	Longitude (+E/-W) decimal(°)	Date	Gnomon height [cm ]	Shadow length [cm ]	Angle (°)
Lafrançaise	France	College Antonin Perbosc	44.127	1.238	07/10/2016	100.0	119.5	50.1
Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655	07/10/2016	100.0	99.0	44.7
Yamunanagar	India	Holy Mother Public School	30.145	77.268	07/10/2016	38.0	27.9	36.3
Hyderabad	India	Space Adhyaan	17.385	78.487	07/10/2016	59.0	21.1	19.7
Rio de Janeiro	Brazil	CENOM	-22.890	-43.317	07/10/2016	70.0	-22.5	-17.8

		Lafrançaise	Piraeus	Yamunanagar	Hyderabad	Rio de Janeiro	
	Angle >	50.1	44.7	36.3	19.7	-17.8	
	Latitude V						
Lafrançaise	44.127		45533	40513	35183	39478	C
Piraeus	37.977	683		37286	32947	38949	I
Yamunanagar	30.145	1553	870		30752	39207	R
Hyderabad	17.385	2971	2288	1418		42960	C
Rio de Janeiro	-22.890	7446	6762	5892	4475		U
			DISTANCE				

07 October 2016



City	Country	School	Latitude (+N/-S) decimal(°)	Longitude (+E/-W) decimal(°)	Date	Gnomon height [cm ]	Shadow length [cm ]	Angle (°)
Yamunanagar	India	Mukand Lal Public School Sarojini Colony	30.133	77.283	08/10/2016	62.3	43.9	35.2
Anisacate	Argentina	Fundacion Caminos de Anisacate	-31.717	-64.400	08/10/2016	100.0	-48.5	-25.9

		Yamunanagar	Anisacate	
	Angle >	35.2	-25.9	
	Latitude V			
Yamunanagar	30.133		40490	C
Anisacate	-31.717	6872		I
		DISTANCE		

08 October 2016



City	Country	School	Latitude (+N/-S) decimal(°)	Longitude (+E/-W) decimal(°)	Date	Gnomon height [cm ]	Shadow length [cm ]	Angle (°)
Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535	10/10/2016	100.0	130.5	52.5
Lafrançaise	France	College Antonin Perbosc	44.127	1.238	10/10/2016	100.0	122.6	50.8
Petroupoli	Greece	4th Junior High School of Petroupolis	38.036	23.674	10/10/2016	30.4	30.5	45.1
Anisacate	Argentina	Fundacion Caminos de Anisacate	-31.717	-64.400	10/10/2016	100.0	-47.2	-25.3

		Busteni	Lafrançaise	Petroupoli	Anisacate	
	Angle >	52.5	50.8	45.1	-25.3	
	Latitude V					
Busteni	45.416		30282	39892	39651	C
Lafrançaise	44.127	143		42758	39860	I
Petroupoli	38.036	820	677		39631	R
Anisacate	-31.717	8569	8426	7750		C
			DISTANCE			

10 October 2016



