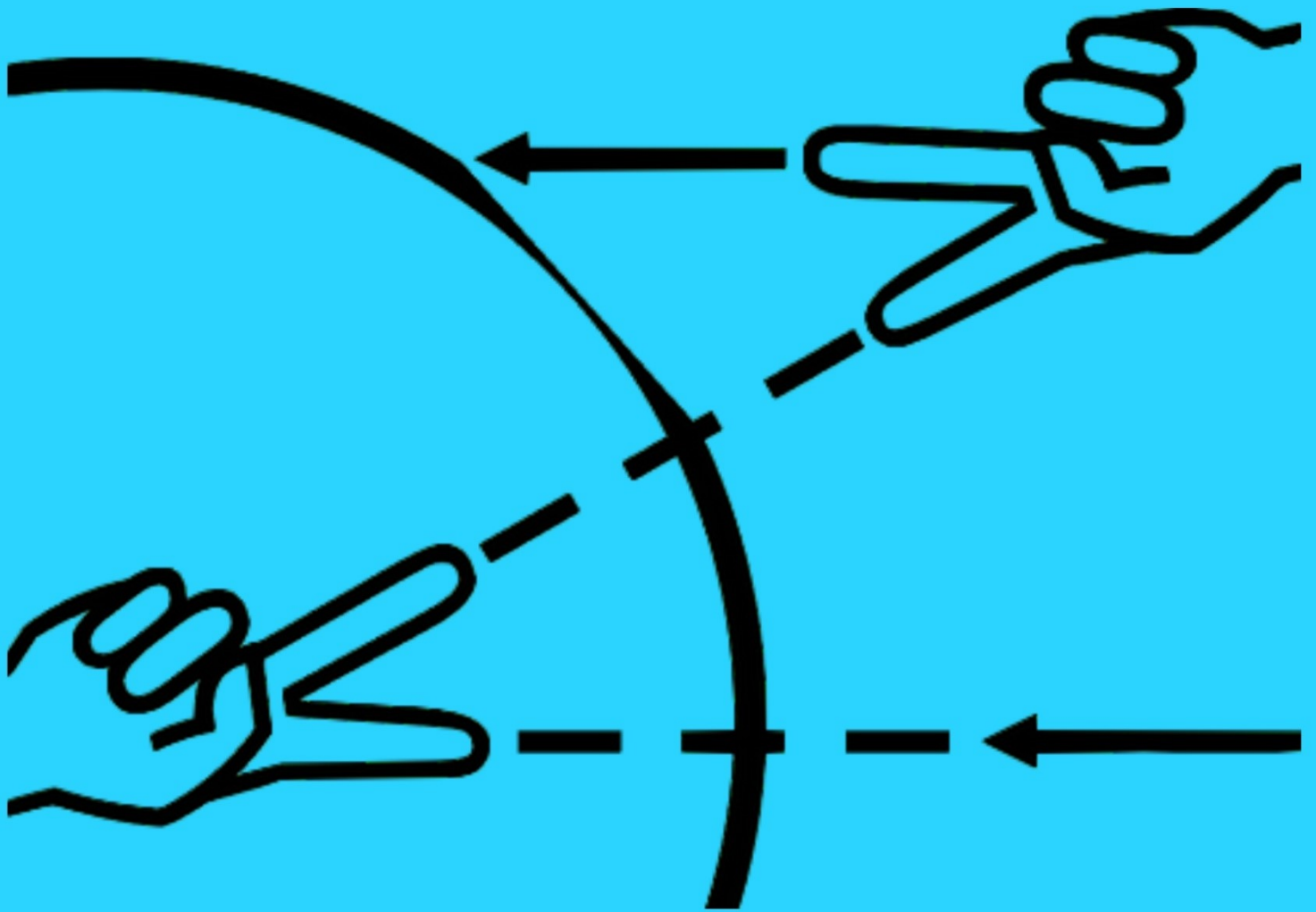


Eratosthenes



2 Continents

6 Countries

11 Teachers

16 Measures

N°56

August 2020

2 Continents

6 Countries

11 Teachers

16 Measures

ARGENTINA (2)

Alta Gracia, Buenos Aires

BRAZIL (4)

Duque de Caxias, Méier, Rio de Janeiro, São Mateus

COLOMBIA (1)

Guarne

FRANCE (1)












Lafrançaise

GREECE (1)

Kalamata


ROMANIA (2)

Busteni, Dorohoi

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Alta Gracia	Argentina	Jose Luis Cabrera	-31.656	-64.417
	Busteni	Romania	Iuliana Ciubuc	45.416	25.535
	Dorohoi	Romania	Lidia Baroi	47.954	26.394
	Duque de Caxias	Brazil	Maria Clara	-21.791	-43.327
	Guarne	Colombia	Alvaro Jose Cano Mejia	6.274	-75.447
	Kalamata	Greece	Athanasia Zafeiropoulou	37.023	22.116
	Méier	Brazil	Roberta Fernandes	-22.904	-43.280
	Montcuq	France	Eric Vayssié	44.340	1.210
	Rio Cuarto	Argentina	Sole Pomilio	-33.149	-64.351
	Rio de Janeiro	Brazil	Jeane de Fátima	-22.890	-43.317
	São Mateus	Brazil	Marcio Cypriano	-18.716	-39.856

Alta Gracia, Argentina

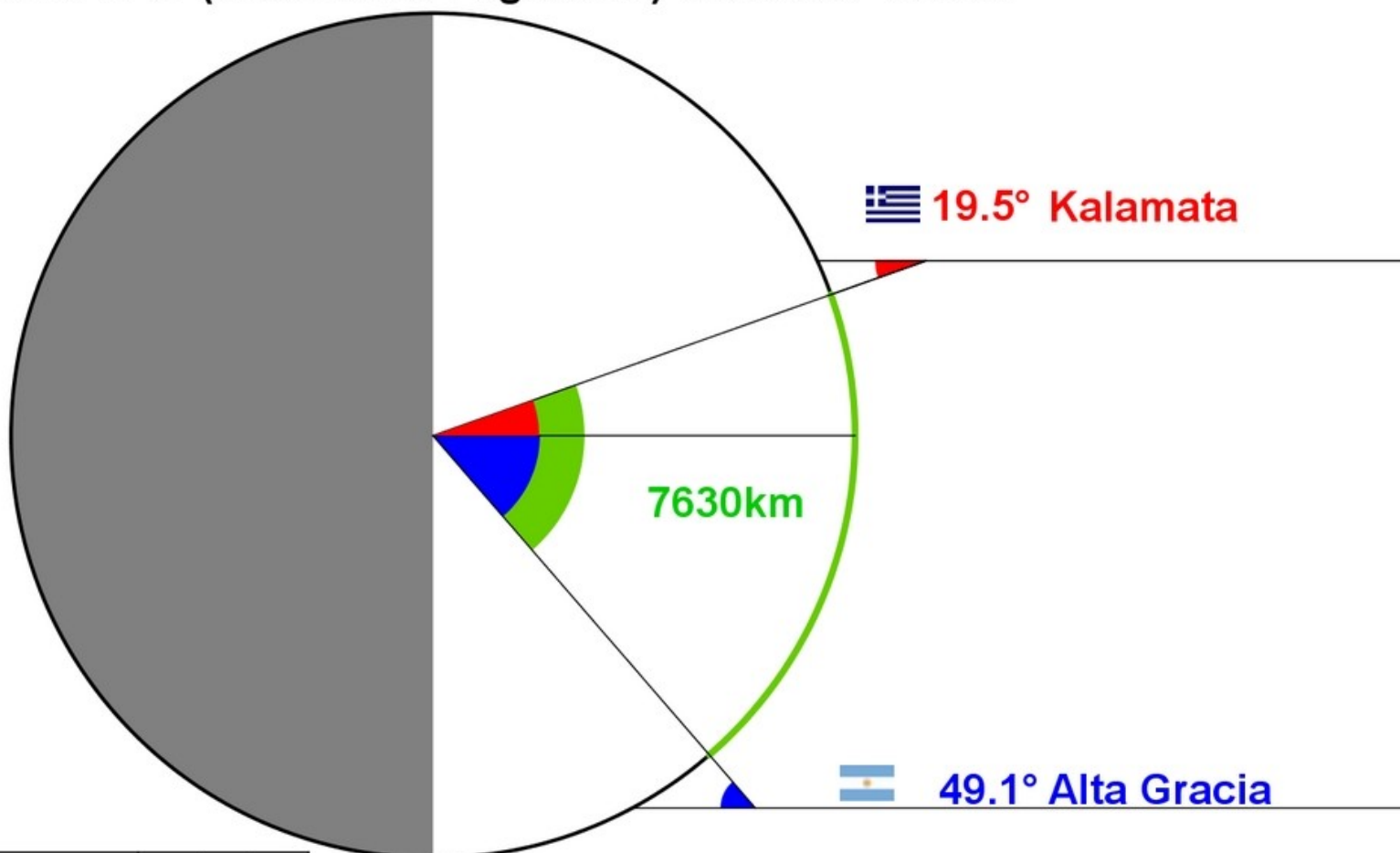


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Alta Gracia	Argentina	Jose Luis Cabrera	-31.656	-64.417

Date	Gnomon	Shadow	Angle
03 August 2020	22.0cm	-25.4cm	-49.1°

03/08/2020 (Kalamata-Greece) Latitude: 37.023°

03/08/2020 (Alta Gracia-Argentina) Latitude: -31.656°



$$\text{circumference} = \frac{360^\circ \times 7630\text{km}}{19.5^\circ + 49.1^\circ} = 40041 \text{ km}$$

Distance	Angle
circumference	360°
7630km	19.5° + 49.1°



Busteni, Romania

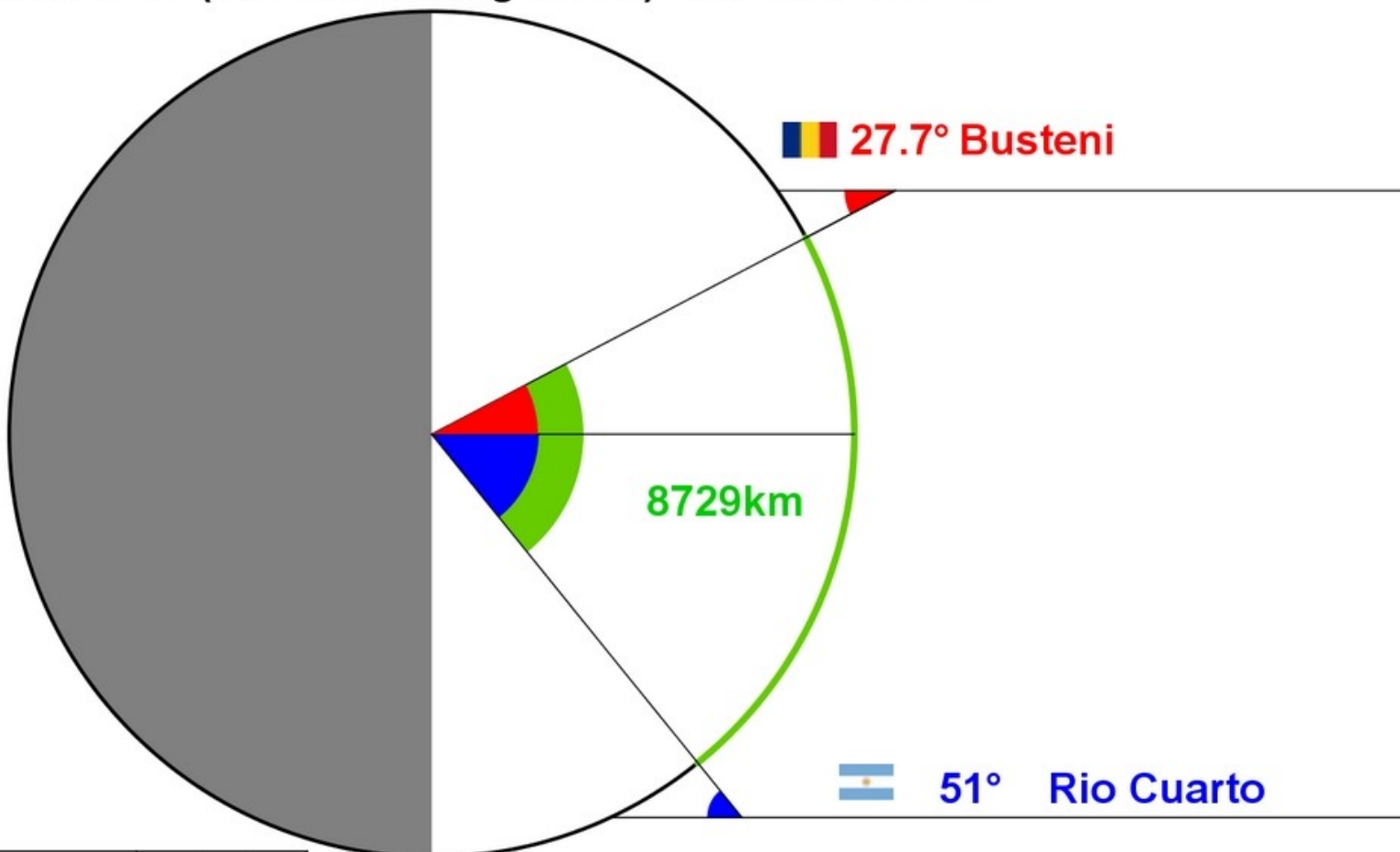


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Busteni	Romania	Iuliana Ciubuc	45.416	25.535

Date	Gnomon	Shadow	Angle
03 August 2020	28.6cm	15.0cm	27.7°
04 August 2020	37.7cm	20.0cm	27.9°
05 August 2020	44.8cm	24.0cm	28.2°

03/08/2020 (Busteni-Romania) Latitude: 45.416°

03/08/2020 (Rio Cuarto-Argentina) Latitude: -33.149°



$$\text{circumference} = \frac{360^\circ \times 8729\text{km}}{27.7^\circ + 51^\circ} = 39929 \text{ km}$$

Distance	Angle
circumference	360°
8729km	27.7° + 51°



Dorohoi, Romania

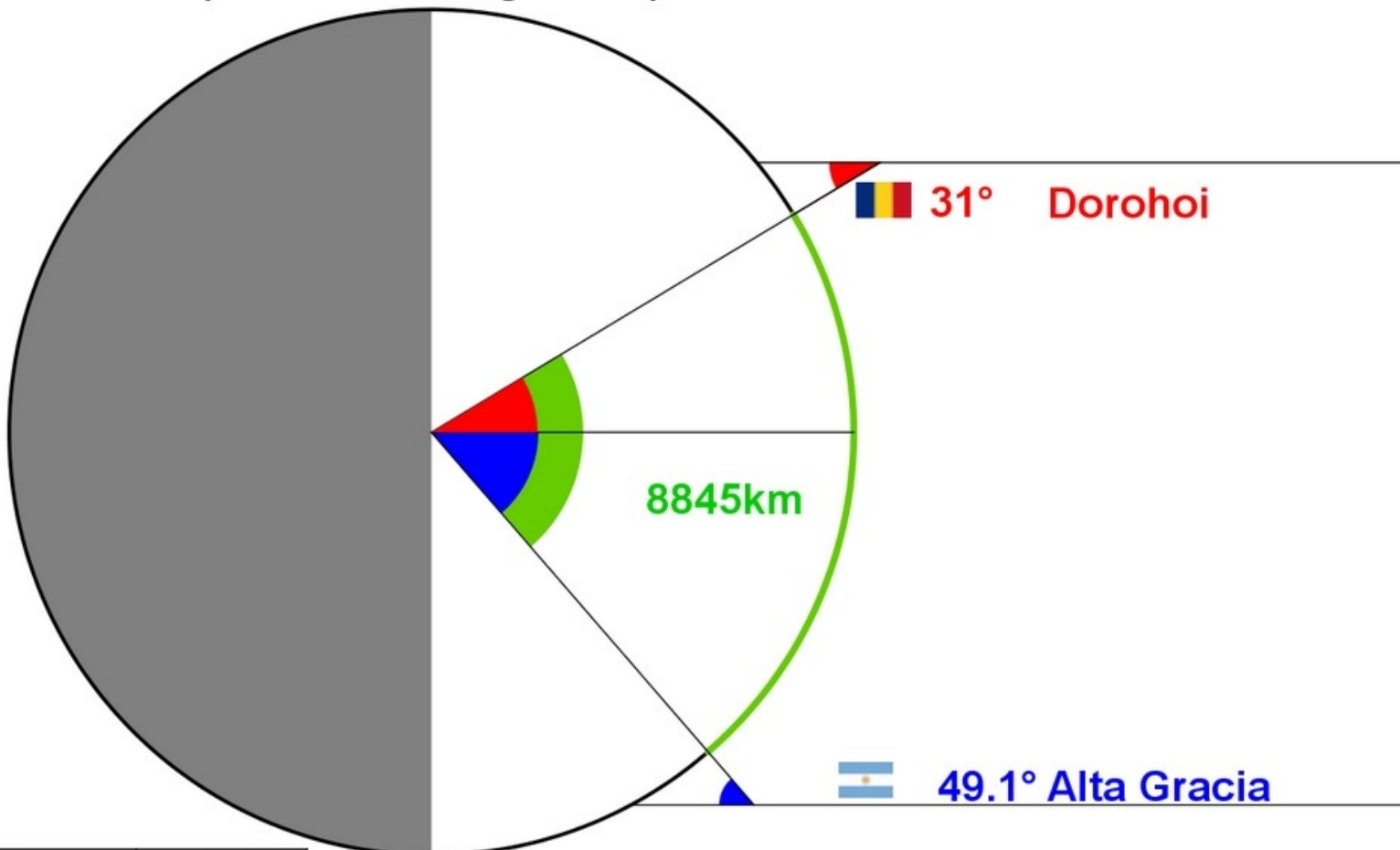


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Dorohoi	Romania	Lidia Baroi	47.954	26.394

Date	Gnomon	Shadow	Angle
03 August 2020	20.0cm	12.0cm	31.0°

03/08/2020 (Dorohoi-Romania) Latitude: 47.954°

03/08/2020 (Alta Gracia-Argentina) Latitude: -31.656°




$$\text{circumference} = \frac{360^\circ \times 8845\text{km}}{31^\circ + 49.1^\circ} = 39753 \text{ km}$$

Distance	Angle
circumference	360°
8845km	31° + 49.1°



Duque de Caxias, Brazil

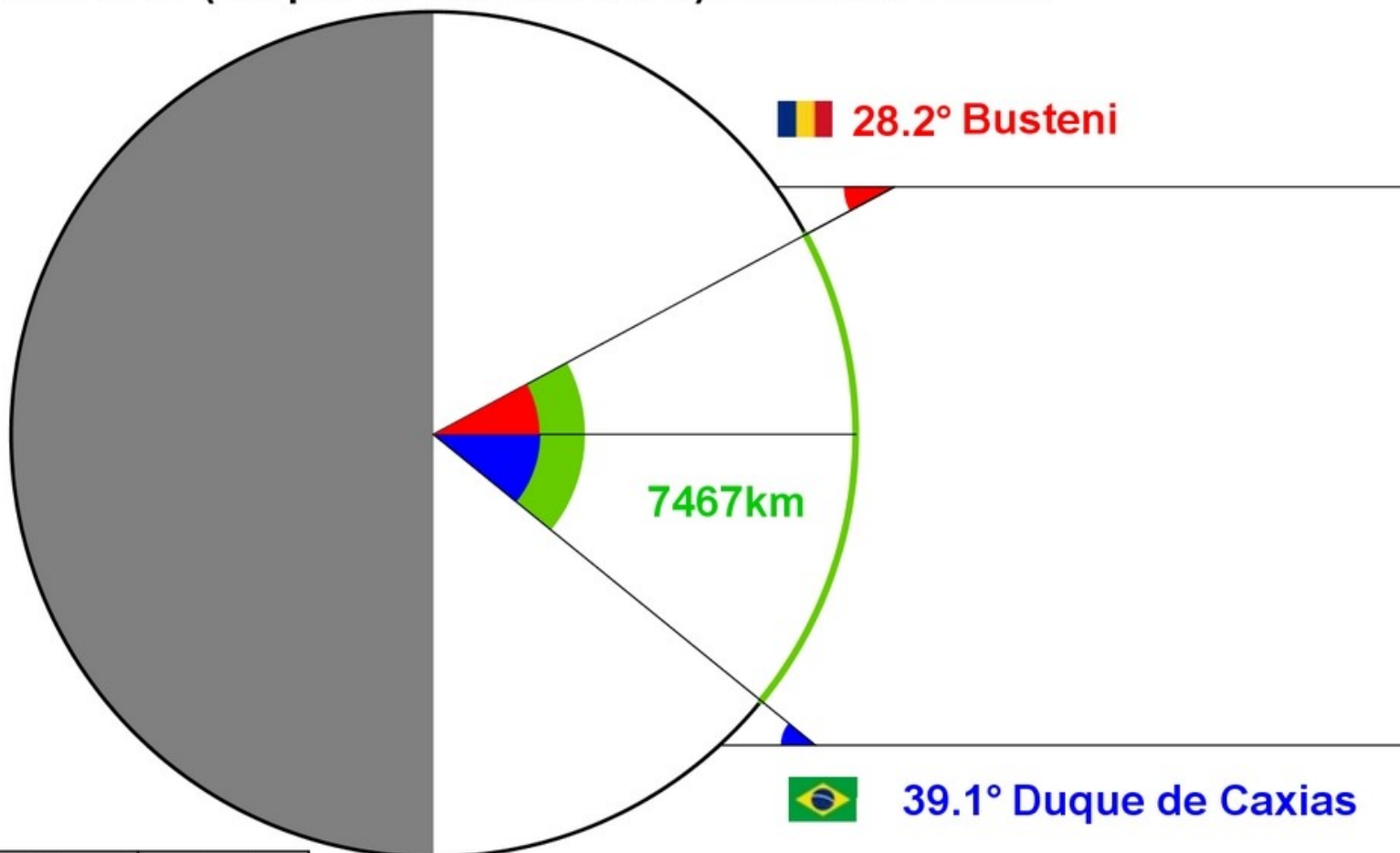


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Duque de Caxias	Brazil	Maria Clara	-21.791	-43.327

Date	Gnomon	Shadow	Angle
05 August 2020	16.0cm	-13.0cm	-39.1°

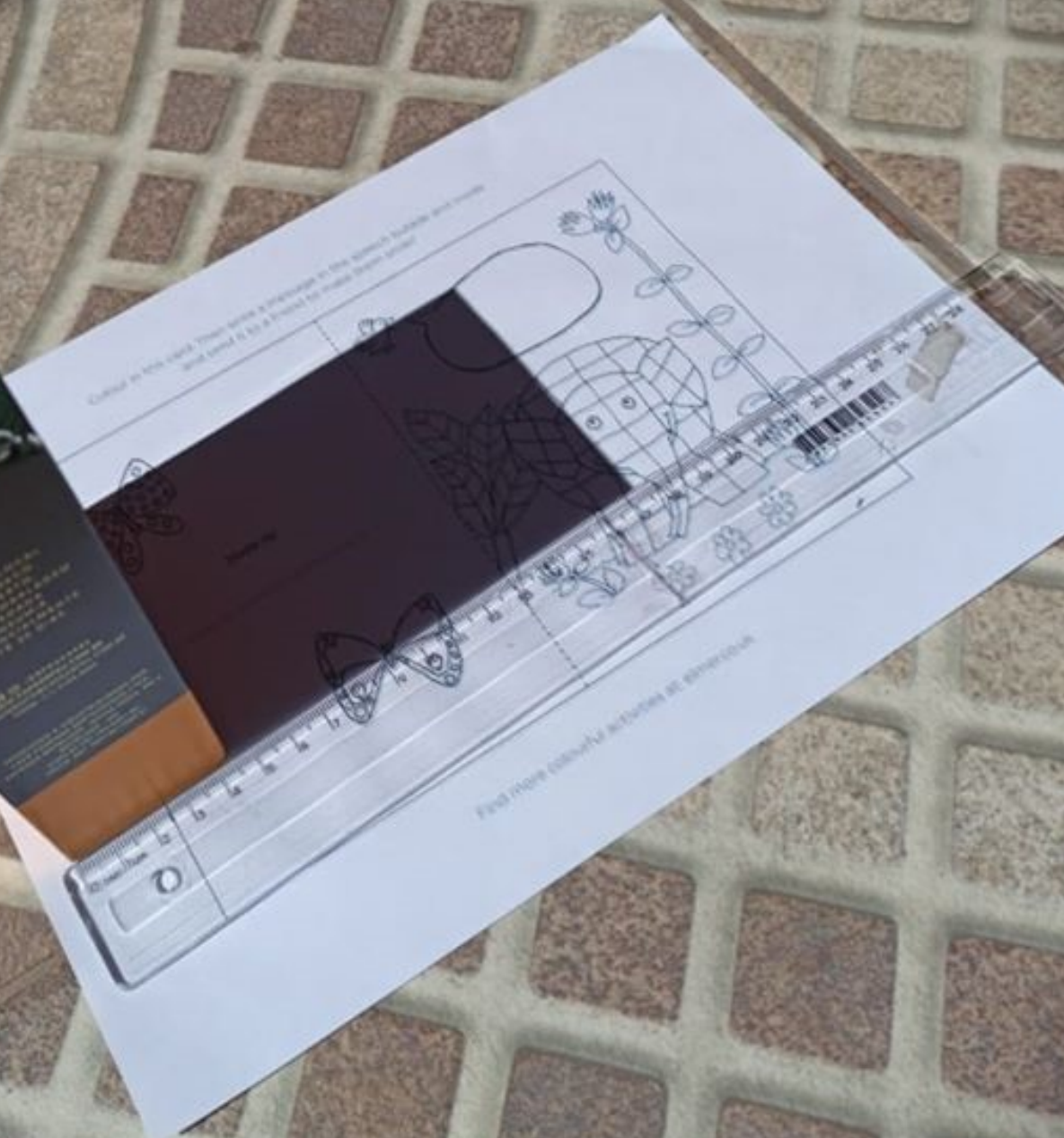
05/08/2020 (Busteni-Romania) Latitude: 45.416°

05/08/2020 (Duque de Caxias-Brazil) Latitude: -21.791°




$$\text{circumference} = \frac{360^\circ \times 7467\text{km}}{28.2^\circ + 39.1^\circ} = 39942 \text{ km}$$

Distance	Angle
circumference	360°
7467km	28.2° + 39.1°



Guarne, Colombia

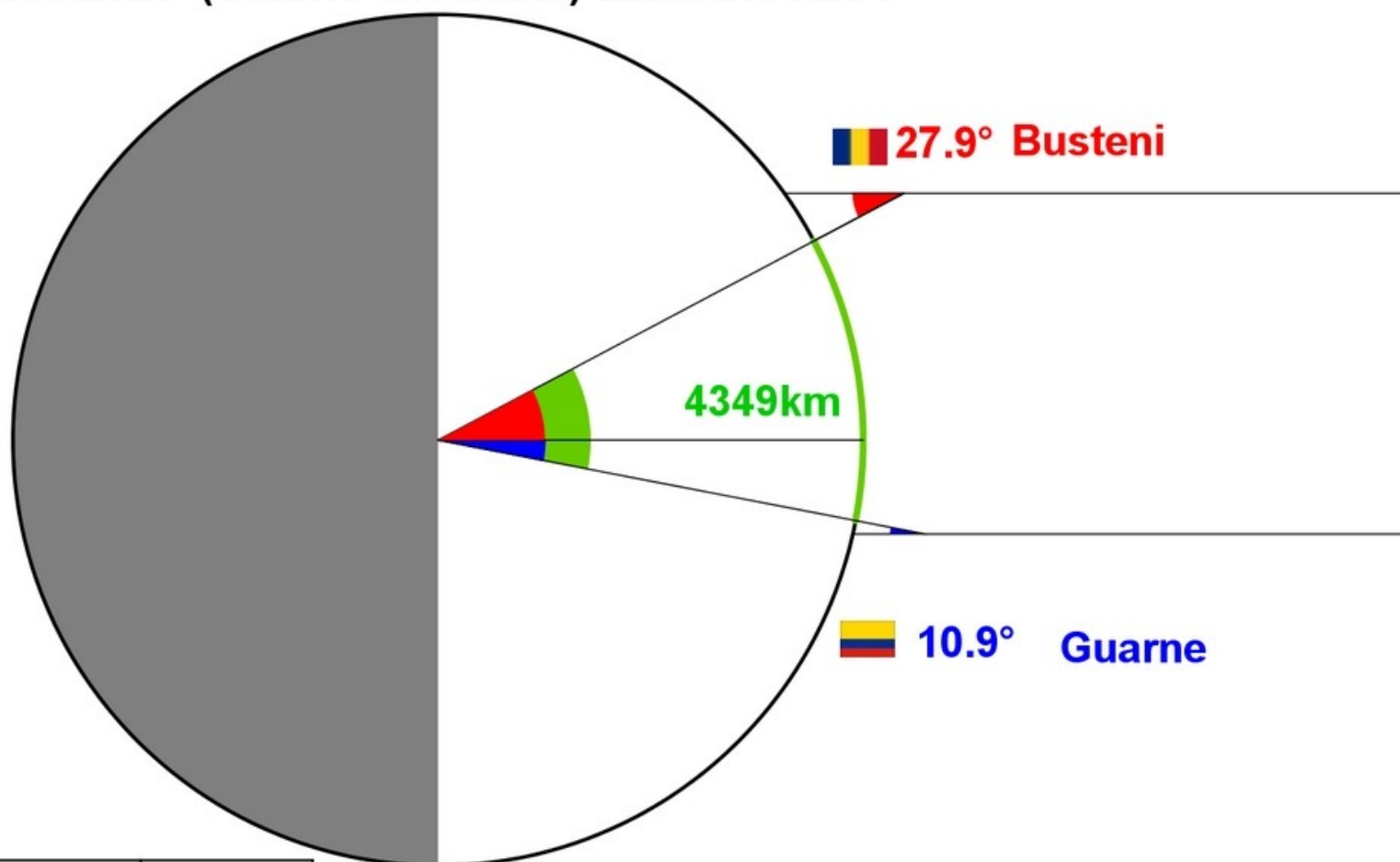


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Guarne	Colombia	Alvaro Jose Cano Mejia	6.274	-75.447

Date	Gnomon	Shadow	Angle
04 August 2020	7.8cm	-1.5cm	-10.9°

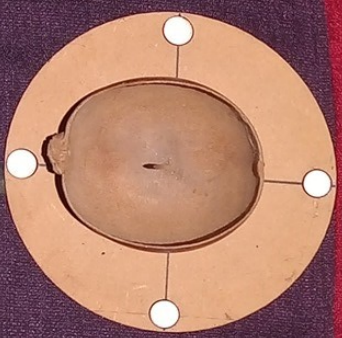
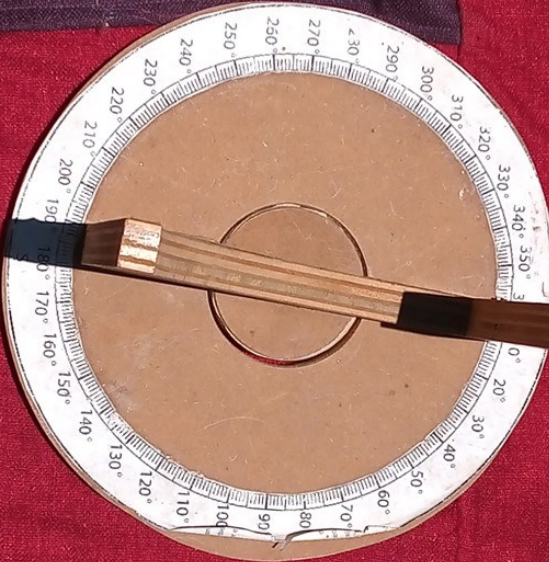
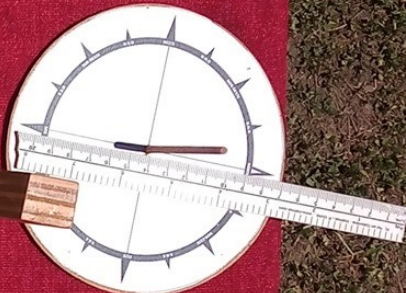
04/08/2020 (Busteni-Romania) Latitude: 45.416°

04/08/2020 (Guarne-Colombia) Latitude: 6.274°



Distance	Angle
circumference	360°
4349km	27.9° + 10.9°

$$\text{circumference} = \frac{360^\circ \times 4349\text{km}}{27.9^\circ + 10.9^\circ} = 40352 \text{ km}$$



Kalamata, Greece

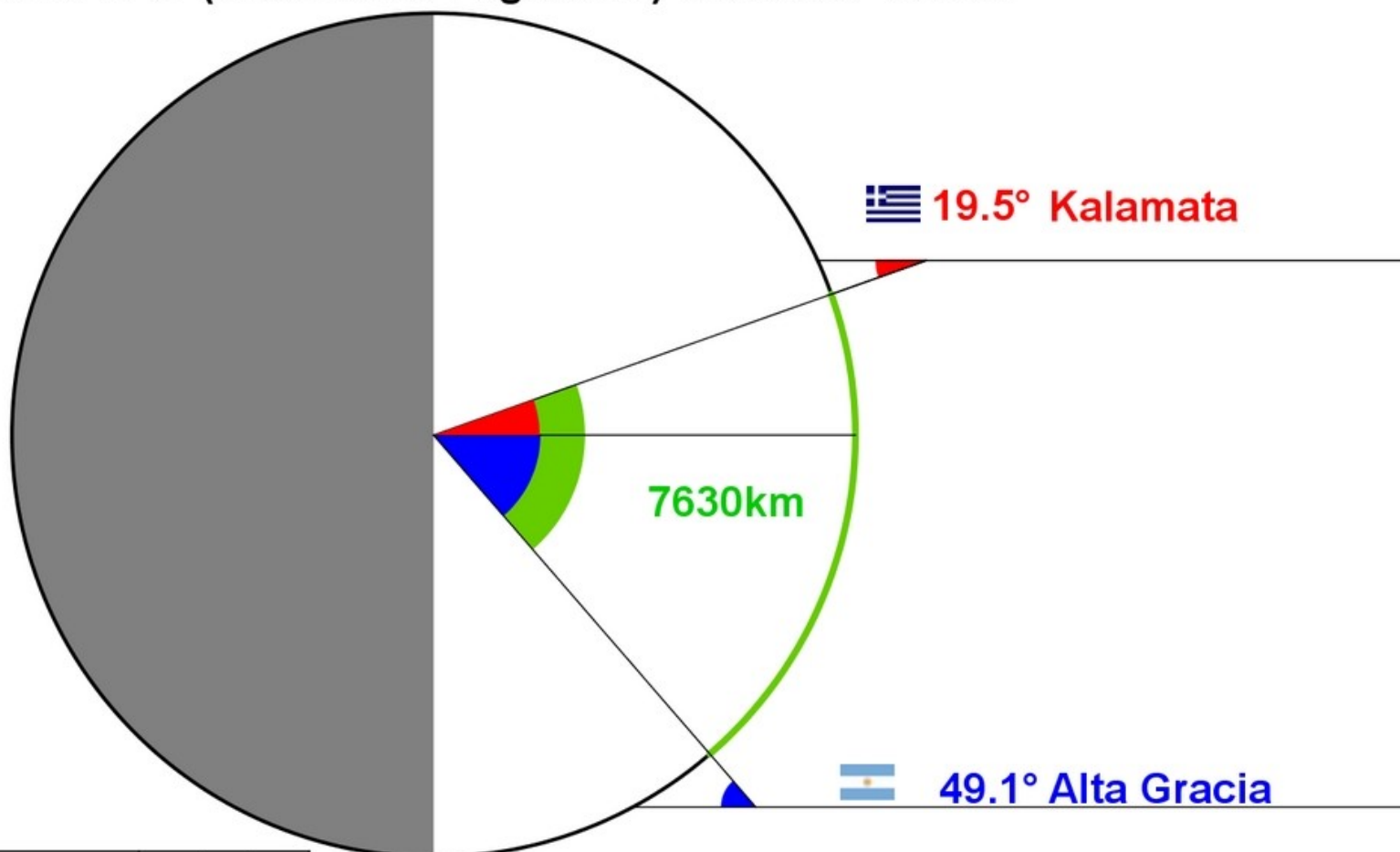


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Kalamata	Greece	Athanasia Zafeiropoulou	37.023	22.116

Date	Gnomon	Shadow	Angle
03 August 2020	40.0cm	14.2cm	19.5°

03/08/2020 (Kalamata-Greece) Latitude: 37.023°

03/08/2020 (Alta Gracia-Argentina) Latitude: -31.656°




$$\text{circumference} = \frac{360^\circ \times 7630\text{km}}{19.5^\circ + 49.1^\circ} = 40041 \text{ km}$$

Distance	Angle
circumference	360°
7630km	19.5° + 49.1°



Méier, Brazil

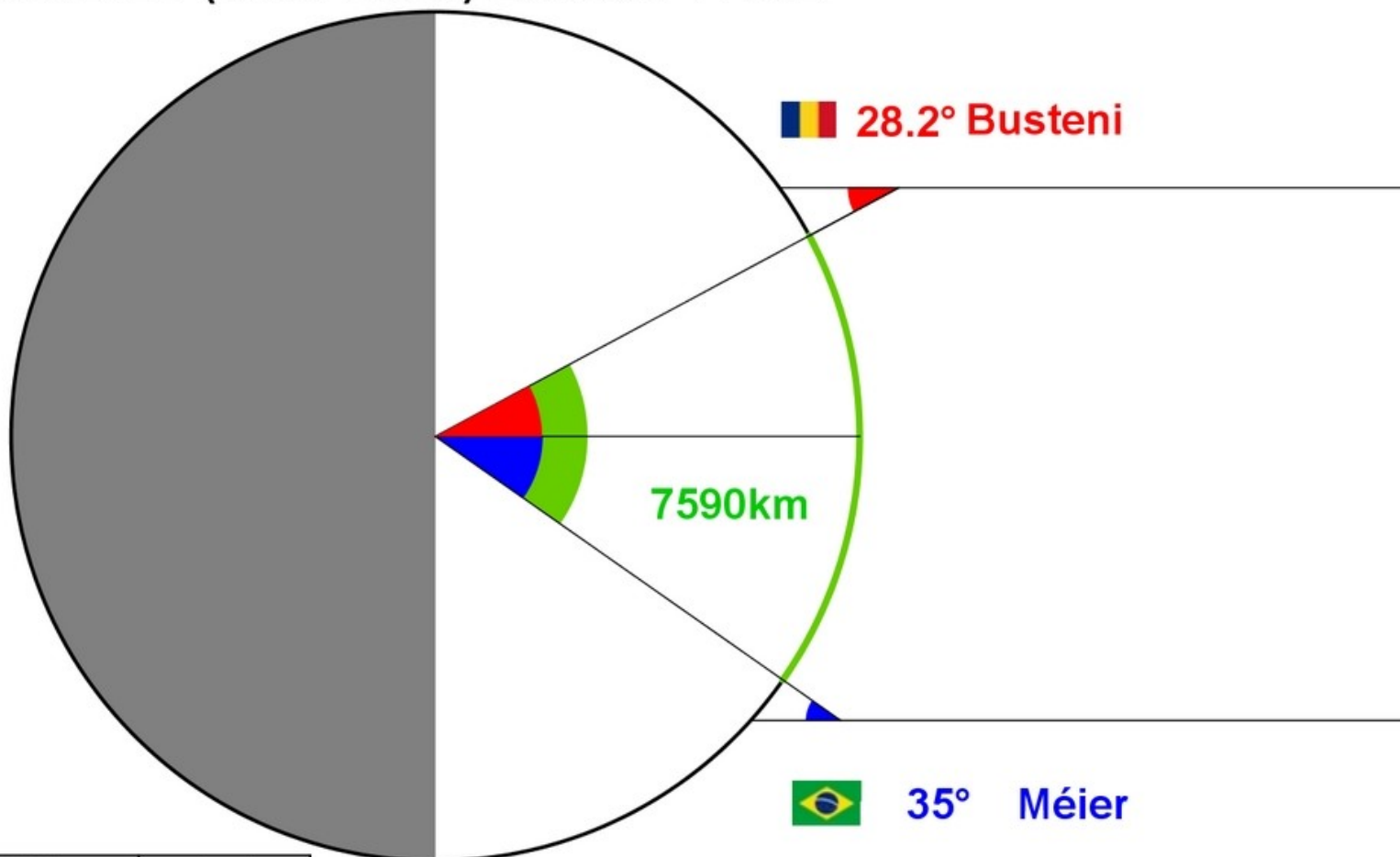


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Méier	Brazil	Roberta Fernandes	-22.904	-43.280

Date	Gnomon	Shadow	Angle
03 August 2020	25.0cm	-23.0cm	-42.6°
05 August 2020	10.0cm	-7.0cm	-35.0°

05/08/2020 (Busteni-Romania) Latitude: 45.416°

05/08/2020 (Méier-Brazil) Latitude: -22.904°




$$\text{circumference} = \frac{360^\circ \times 7590\text{km}}{28.2^\circ + 35^\circ} = 43234 \text{ km}$$

Distance	Angle
circumference	360°
7590km	28.2° + 35°



Montcuq, France

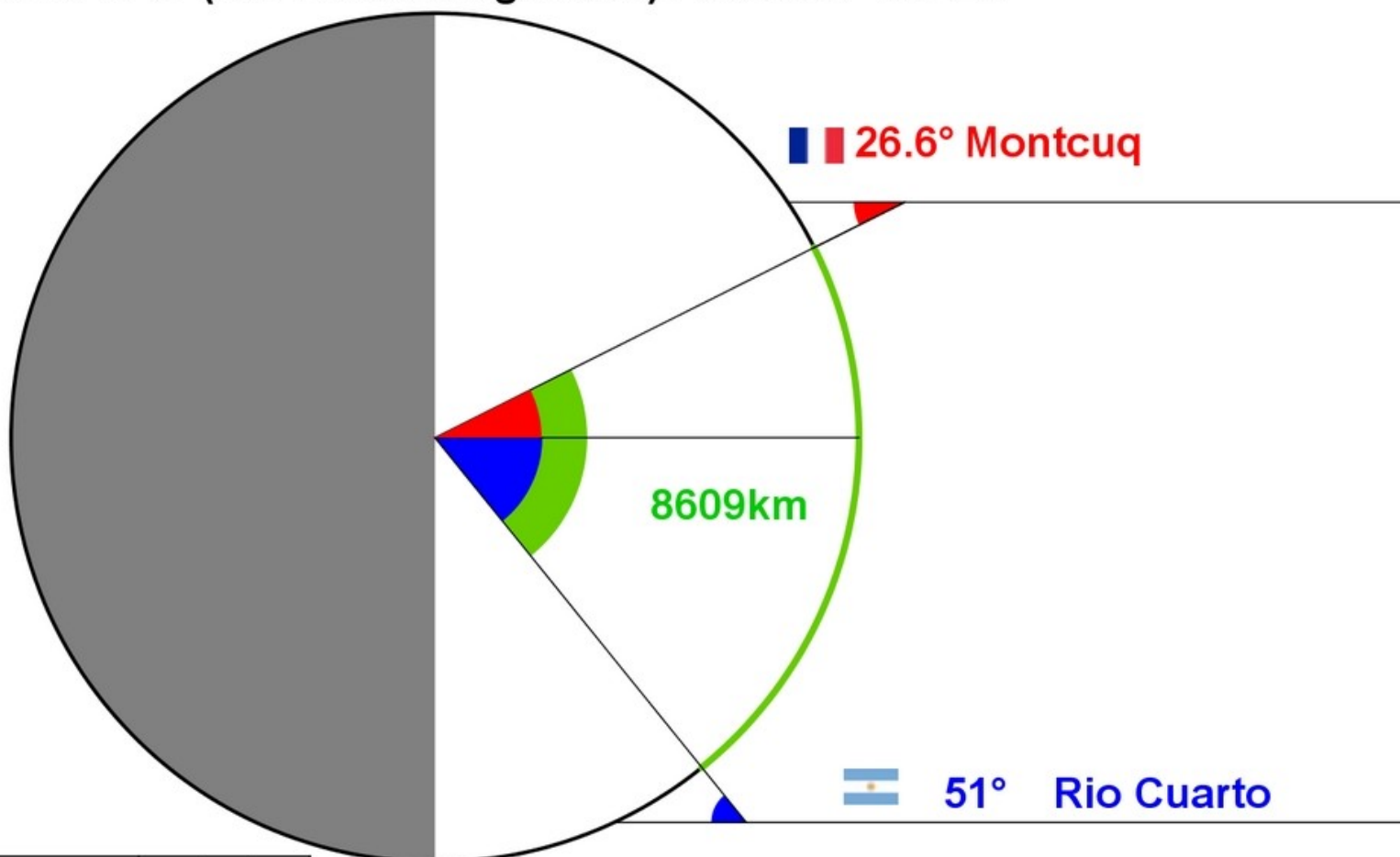


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Montcuq	France	Eric Vayssié	44.340	1.210

Date	Gnomon	Shadow	Angle
03 August 2020	100.0cm	50.0cm	26.6°

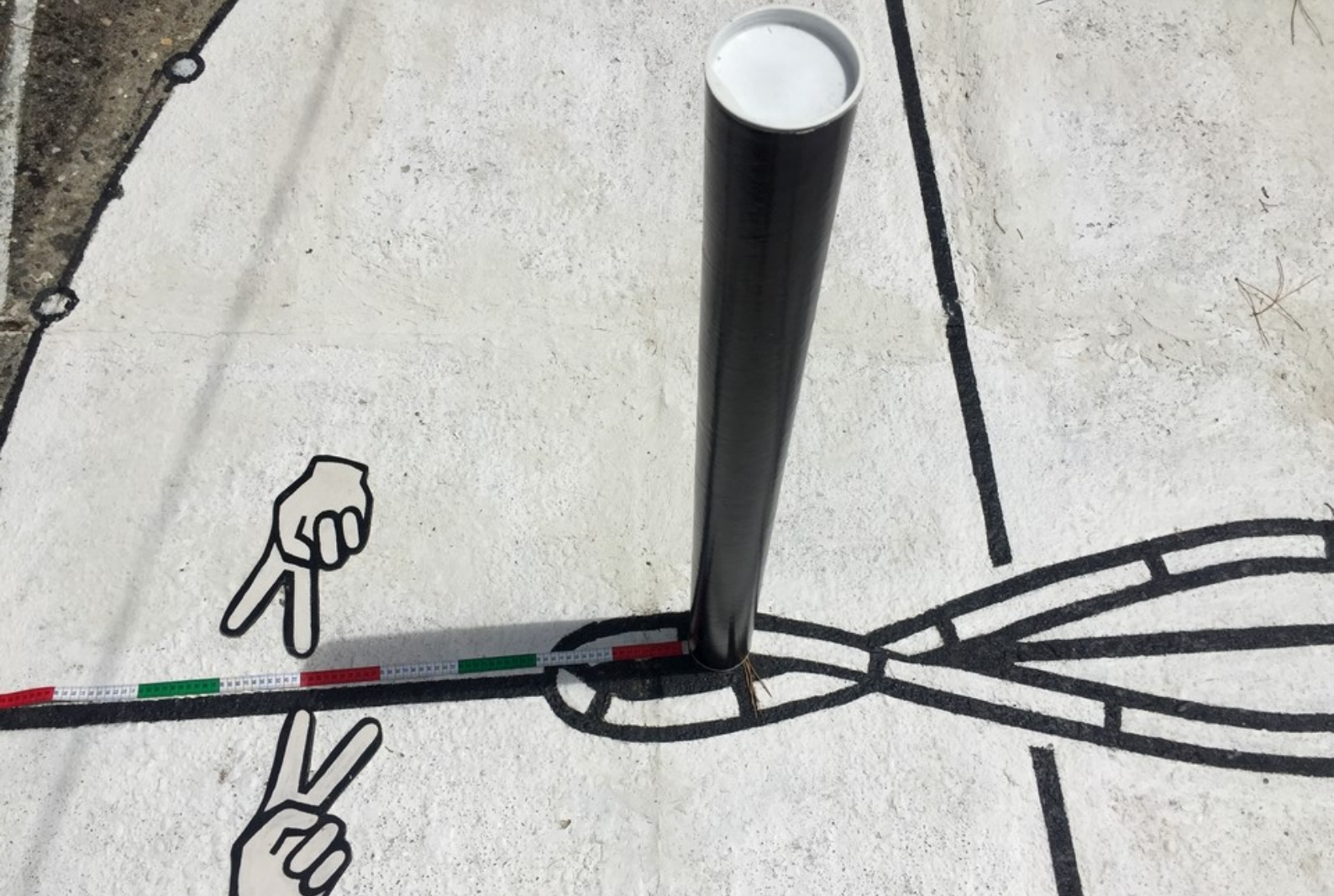
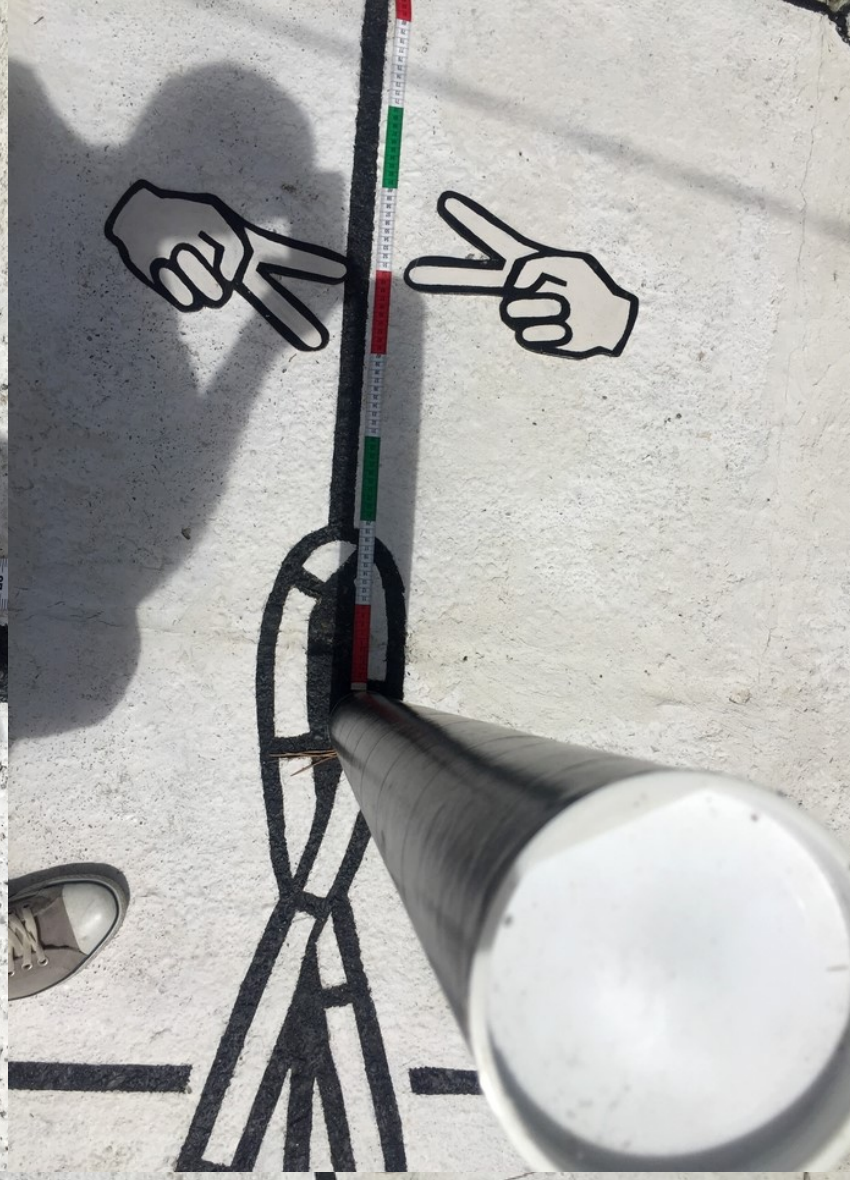
03/08/2020 (Montcuq-France) Latitude: 44.34°

03/08/2020 (Rio Cuarto-Argentina) Latitude: -33.149°




$$\text{circumference} = \frac{360^\circ \times 8609\text{km}}{26.6^\circ + 51^\circ} = 39939 \text{ km}$$

Distance	Angle
circumference	360°
8609km	26.6° + 51°



Rio Cuarto, Argentina

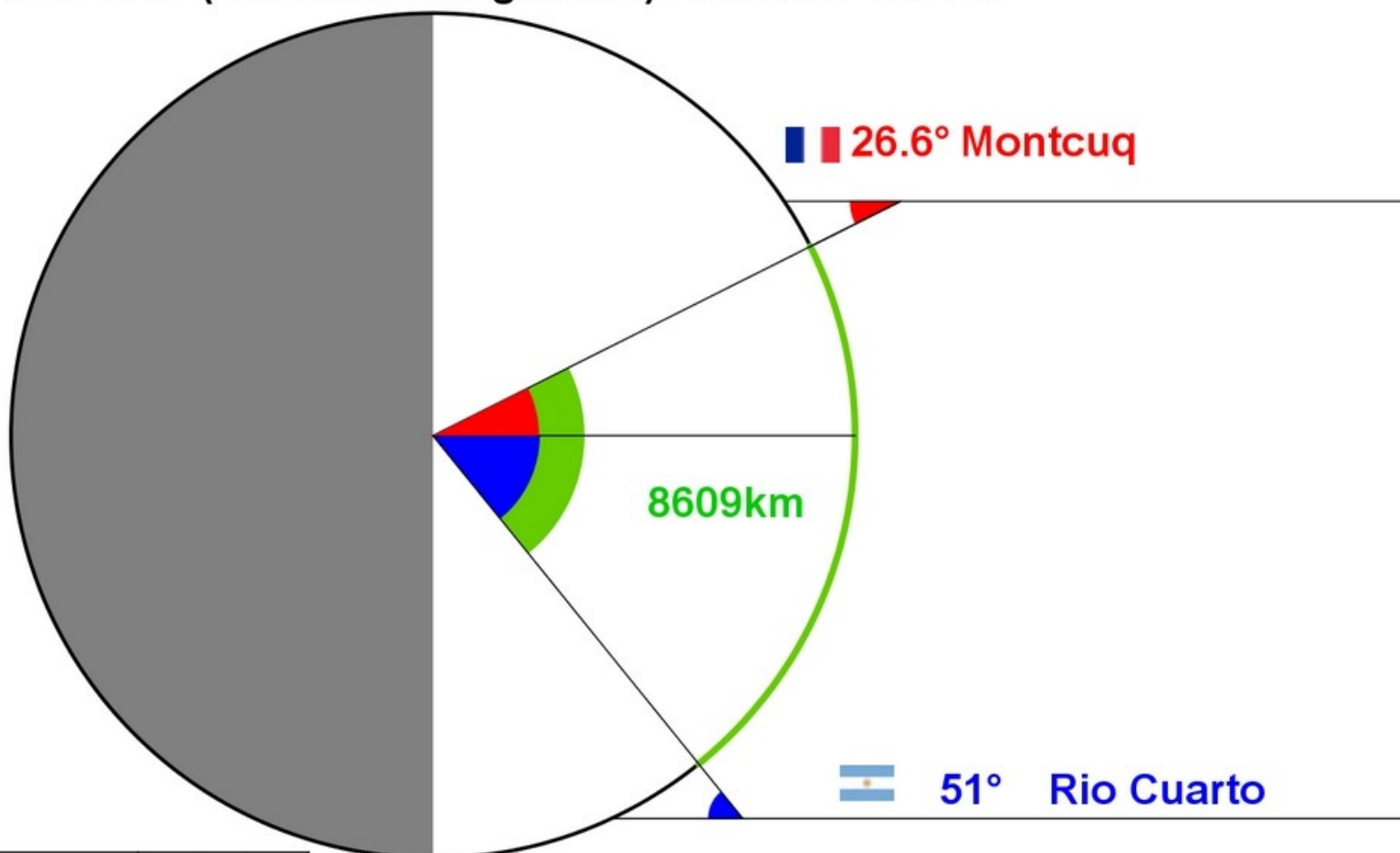


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio Cuarto	Argentina	Sole Pomilio	-33.149	-64.351

Date	Gnomon	Shadow	Angle
03 August 2020	52.5cm	-64.8cm	-51.0°

03/08/2020 (Montcuq-France) Latitude: 44.34°

03/08/2020 (Rio Cuarto-Argentina) Latitude: -33.149°



$$\text{circumference} = \frac{360^\circ \times 8609\text{km}}{26.6^\circ + 51^\circ} = 39939 \text{ km}$$

Distance	Angle
circumference	360°
8609km	26.6° + 51°



#EratosthenesAtHome
#ProyectoEratosthenes
#ColegioConcordia
#YoMeQuedoEnCasa



Rio de Janeiro CENOM, Brazil

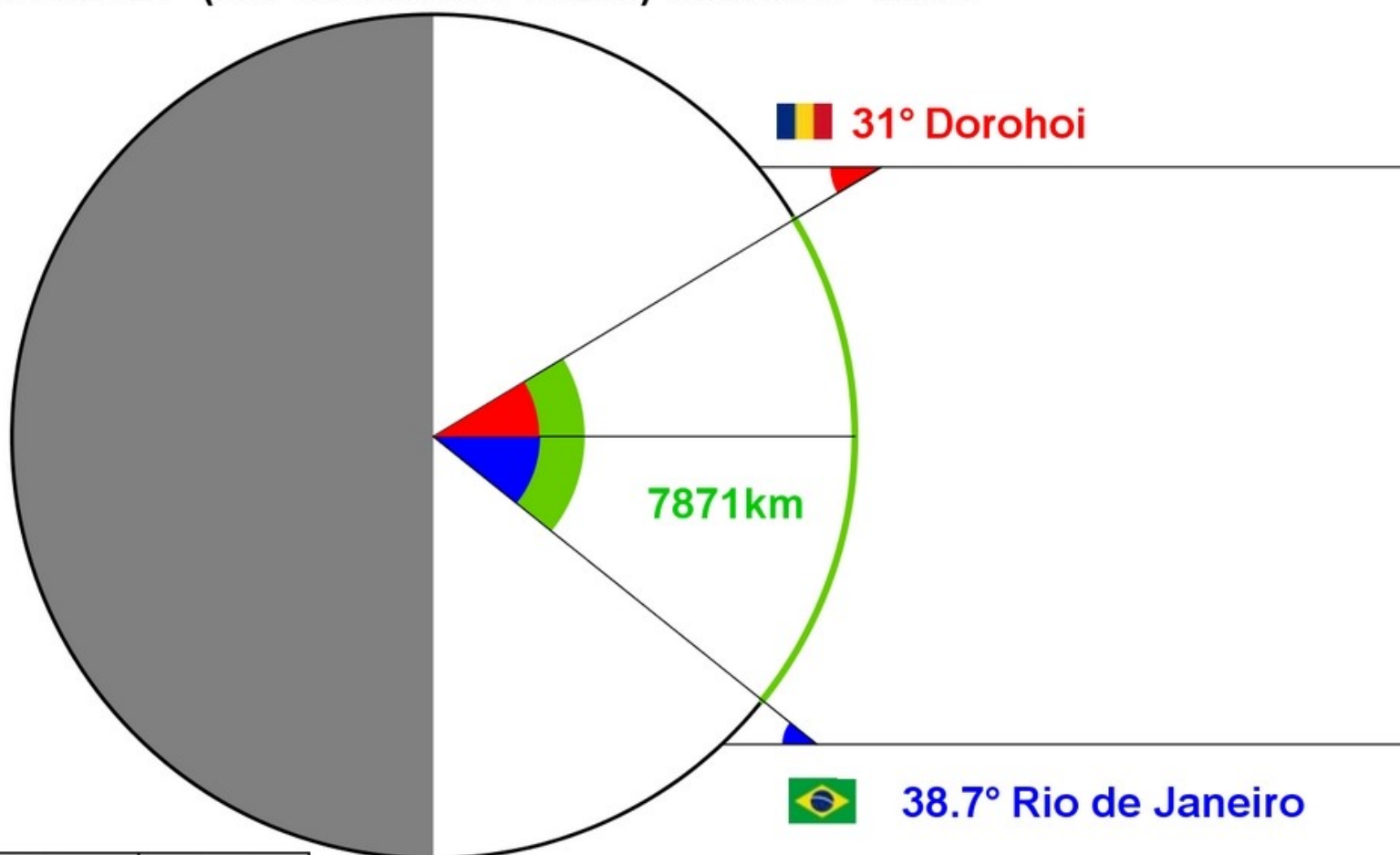


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Jeane de Fátima	-22.890	-43.317

Date	Gnomon	Shadow	Angle
03 August 2020	20.0cm	-16.0cm	-38.7°
04 August 2020	20.0cm	-16.0cm	-38.7°
05 August 2020	20.0cm	-16.0cm	-38.7°

03/08/2020 (Dorohoi-Romania) Latitude: 47.954°

03/08/2020 (Rio de Janeiro-Brazil) Latitude: -22.89°




$$\text{circumference} = \frac{360^\circ \times 7871\text{km}}{31^\circ + 38.7^\circ} = 40654 \text{ km}$$

Distance	Angle
circumference	360°
7871km	31° + 38.7°



São Mateus, Brazil

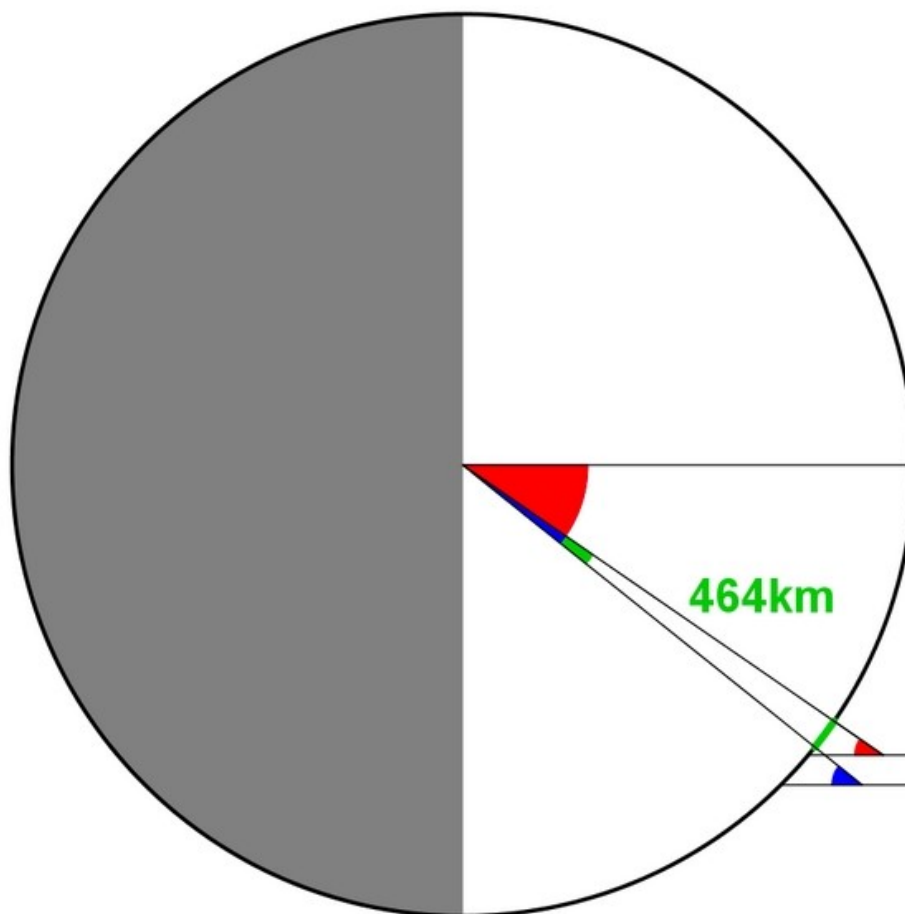


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	São Mateus	Brazil	Marcio Cypriano	-18.716	-39.856

Date	Gnomon	Shadow	Angle
05 August 2020	11.0cm	-7.6cm	-34.6°

05/08/2020 (São Mateus-Brazil) Latitude: -18.716°

05/08/2020 (Rio de Janeiro-Brazil) Latitude: -22.89°



 34.6° São Mateus

 38.7° Rio de Janeiro

$$\text{circumference} = \frac{360^\circ \times 464\text{km}}{38.7^\circ - 34.6^\circ} = 40741 \text{ km}$$

Distance	Angle
circumference	360°
464km	38.7° - 34.6°



