

TIME

Let's make Sundial

Circle Sundial

Basic Information

1 day = _____ hours

If you allow with geocentric system, the sun moves around the earth 1 time per day.

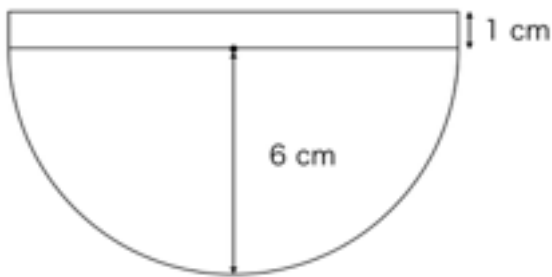
→The sun move _____° per hour.

Material

Thick paper, scissors, thread, tape, ruler, pen

Step

1. Make 2 half circles as shown.



2. The radius of the circle is 6 cm and the half-circumference of this half-circle is _____ cm.

3. Make rectangular of 5cm × _____ cm.

4. Put the hour line.

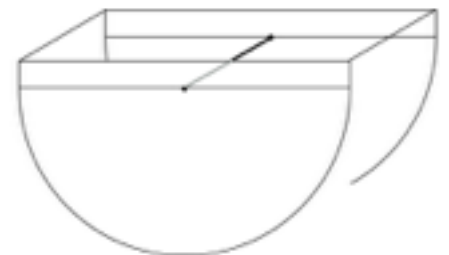
The Sun moves this half circle (180°) by 12 hours. So the hour line is put every _____ cm.

5. Connect the 2 half circles and rectangle to make half cylinder.

6. Let thread pass the centre of the half circles.

7. Put the sundial with its thread being along to longitude line.

(North to South)



Longitude of Uganda (Kampala) : E 32°

Longitude of Japan : E 135°

→The time difference of Uganda and Japan is about _____ hours.