

Sun's rotation period

Quiz – Intermediate Level

Name: _____

Class: _____

Mark the proper way to end each sentence. Only one answer is possible.

1. The Sun rotates

- slower than Earth.
- faster than Earth.
- happier than Earth.
- once every 24h.

2. The rotation period is

- how fast the Sun rotates.
- the time that takes to a sunspot to move from one edge of the Sun to the other.
- how fast the Sun rotates about an alien spacecraft.
- the time that an object needs to complete one rotation.

3. If an object rotates very fast it

- must have a long rotation period.
- must have a short rotation period.
- must be very small.
- must be powered by a computer.

4. We can calculate the rotation speed of the Sun by measuring the speed of sunspots because

- sunspots want to help us and they whisper the Sun's differential rotation.
- sunspots are located in the Sun's core, so we can measure their speeds with no disturbance.
- sunspots move through the surface.
- sunspots are located at the Sun's surface, whose speed we want to measure.

5. Once we know the speed of a sunspot, calculating Sun's rotation period requires to know the

- distance between the initial and the final position of a sunspot moving through Sun's surface.
- help of astronauts that are on ongoing missions at the Sun.
- number of degrees in a complete rotation.
- time that takes to the sunspot to go from the initial to the final position

6. Calculating the speed of a sunspot requires the

- cooperation of ESAC scientist, because their computers have to be used.
- distance between the initial and the final position of a sunspot moving through Sun's surface.
- exact coordinates of a sunspot located in Sun's surface.
- time that takes to a sunspot to move from one edge of the Sun to the other one.

7. Earth's rotation is the reason for day and night, Sun's rotation is the reason for

- Sun's day and night.
- the movement of Sun features.
- life in Earth's core.
- Sun's short rotation period.

8. To calculate the speed of a sunspot you

- measured the distance between two sunspots.
- used a chronometer.
- looked at two different sunspots.
- tracked the sunspot in time-spaced images.

9. In science its common to

- have predictions before measuring.
- ignore the predictions only when you finished the measurement.
- use the results of an experiment to predict the value that you measured.
- ignore other scientist, because scientist know nothing.

10. The Sun rotates

- so fast that it is flat.
- clockwise, like the Earth does.
- counter-clockwise, like the Earth does.
- faster than a pulsar.