

Earth's Weather

Did You Know? The Earth makes one complete revolution around the sun each year. The tilt of the Earth on its axis during this revolution causes the different seasons we experience. The four seasons—spring, summer, autumn, and winter—occur in the temperate zones of the continental United States. The amount of sunlight a place receives in a day changes based on the season and its position on Earth.

Sunny Days in August	
Week 1	7
Week 2	6
Week 3	7
Week 4	5
Each = 1 sunny day.	

Arizona is the sunniest state in the United States with an average of about 330 days of sun per year. Jayden lives in Arizona and made the picture graph shown above.

- 1 How many total days of sun did Jayden record in August?

25 days

- 2 Without counting, which week had the least number of sunny days in August? Explain how you know.

Week 4; It has the fewest pictures.

- 3 Without counting, which weeks had the greatest number of sunny days in August? Explain how you know.

Weeks 1 and 3; They have the most pictures.

- 4 How many more days of sun were there in Weeks 1 and 2 combined than in Weeks 3 and 4 combined? How can you find the answer without calculating?

1 day; Weeks 1 and 3 have the same number of sunny days; I just need to compare Weeks 2 and 4.

- 5 **Extension** Use the information in Jayden's picture graph to create a picture graph showing the number of **CLOUDY** days in Arizona in August. Remember, there are 7 days in each week. **Check students' graphs.**