

# 15 LUNAR FACTS ABOUT THE MOON



8 A crater on the moon is named after Abu al-Wafa' al-Buzjani.

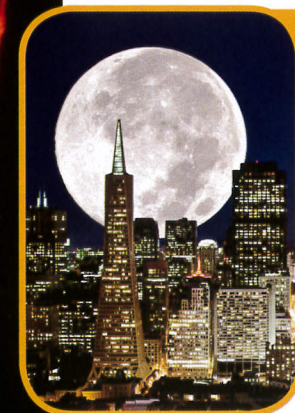


9 The Islamic calendar has 12 months that begin and end according to the lunar cycle.



10 In 634 the second ruler of the Muslim world introduced the hijri date system, a calendar based on the lunar cycle, which is still in use today.

11 The hijri, or Islamic calendar, is only 354 or 355 days long, 11 days shorter than calendars based on the Earth's revolution around the sun.



12 Ibn al-Haytham studied the moon at different positions in the sky and discovered that its larger appearance near the horizon is an optical illusion. The moon's real size never changes.

13 The moon's surface has more than 650 dark and light patches, caused by craters and other formations. Thirteen of these are named for Muslim astronomers.

14 Lunar formations are part of what creates the "man in the moon" phenomenon we can see from the Earth.

15 The moon has been known by many names: "Luna" by the Romans, "Selene" by the Greeks, and Al-Qamar by Arabs.



Moon during lunar eclipse

1 In Muslim civilization astronomers were fascinated by the phases of the Moon.

Astronomers in early Muslim civilization calculated precisely when the crescent moon would appear—important information for followers of Islam.

3 The crescent moon marks the beginning of Ramadan and other months in the Islamic calendar.



4 Al-Kindi, a 9th-century Iraqi, developed a type of trigonometry that dealt with spheres rather than flat surfaces.



5 People needed spherical trigonometry to find the direction of Mecca, the holiest place of Islam, from any point on Earth.

6 Astronomer Muhammad Abu al-Wafa' al-Buzjani discovered that the moon travels at different speeds during different phases.



7 The Danish astronomer Tycho Brahe is often credited with discovering this lunar phenomenon, but his discovery came 600 years after Al-Buzjani's.