

What is a lunar eclipse?

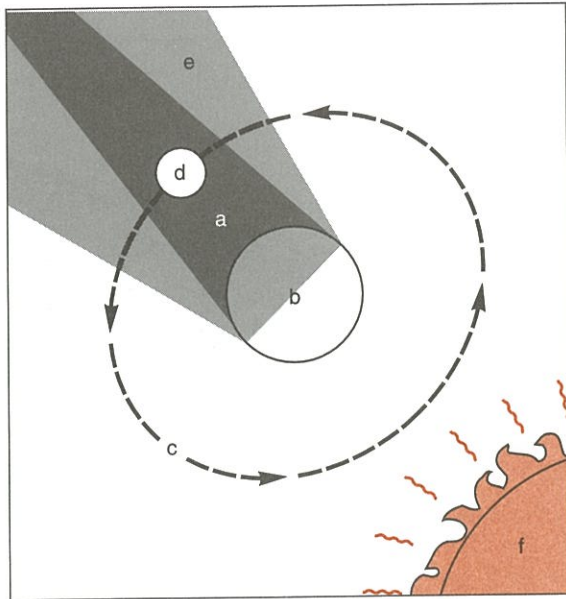


KEY TERM

lunar eclipse: passing of the moon through the Earth's shadow

UNDERSTANDING A LUNAR ECLIPSE

Figure A shows a total lunar eclipse. Study it. Then fill in the blanks.



Identify the following by letter:

- _____ 1. Sun
- _____ 2. Earth
- _____ 3. Moon
- _____ 4. Moon's orbit
- _____ 5. Earth's umbra
- _____ 6. Earth's penumbra

Figure A During a lunar eclipse, the sun, Earth and moon line up in a straight line with the Earth in the middle.

There are two kinds of lunar eclipses: total and partial.

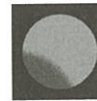
The moon looks like this when it is not eclipsed:



A total lunar eclipse looks like this:



A partial lunar eclipse may look like any of these:



7. The moon is in total eclipse when it is in the Earth's _____ .
umbra, penumbra

8. The moon is in partial eclipse when it is in the Earth's _____ .
umbra, penumbra

9. When the moon is only partly in the Earth's penumbra, the eclipse is

total, partial

10. When the moon is partly in the umbra and partly in the penumbra, the eclipse is

total, partial

TRUE OR FALSE

In the space provided, write "true" if the sentence is true. Write "false" if the sentence is false.

- _____ 1. The moon makes its own light.
- _____ 2. The moon reflects the sun's light.
- _____ 3. During a lunar eclipse, the moon is in the Earth's shadow.
- _____ 4. During a lunar eclipse, part of the Earth is in the moon's shadow.
- _____ 5. During a solar eclipse, part of the Earth is in the moon's shadow.
- _____ 6. During a solar eclipse, the moon is in the Earth's shadow.
- _____ 7. The whole moon can be covered by the Earth 's shadow.
- _____ 8. The whole Earth can be covered by the moon's shadow.
- _____ 9. The darker part of a shadow is the umbra.
- _____ 10. the darker part of a shadow is the penumbra.

MATCHING

Match each term in Column A with its description in Column B. Write the correct letter in the space provided.

- | | Column A | Column B |
|-------|------------------|--|
| _____ | 1. umbra | a) light part of a shadow |
| _____ | 2. solar eclipse | b) moon is in the Earth's shadow |
| _____ | 3. lunar eclipse | c) reflects the sun's light |
| _____ | 4. penumbra | d) darker part of a shadow |
| _____ | 5. moon | e) part of the Earth is in the moon's shadow |