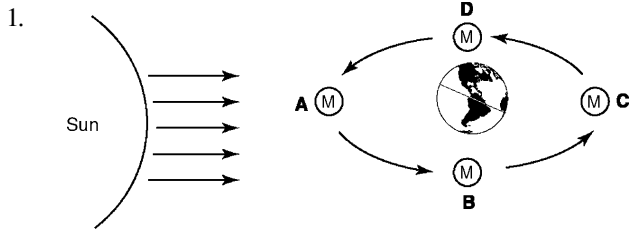


RQ Eclipses and Tides

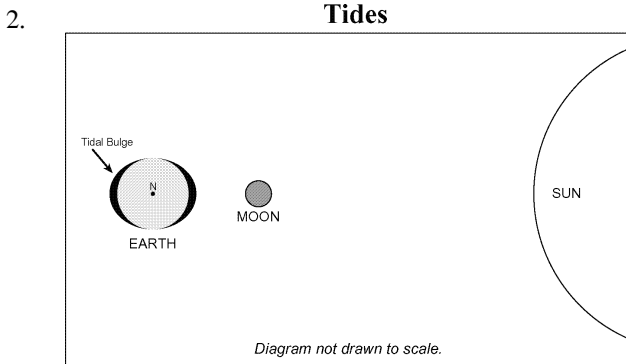
Name: _____

Date: _____



What positions of the moon (M) will create the greater tidal range?

- A. A or B B. A or C
C. B or D D. B or C



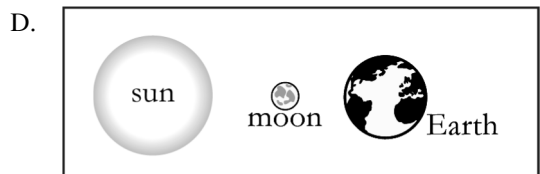
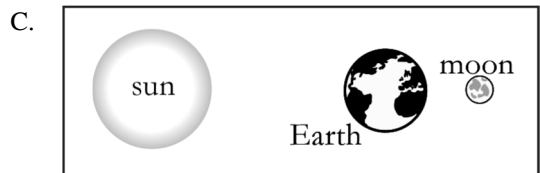
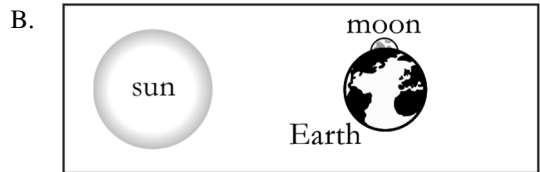
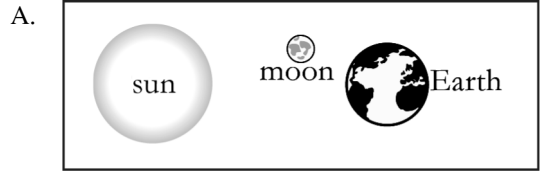
Why does the moon have a greater effect on the tides than the sun?

- A. The moon is larger than the sun.
B. The moon is solid while the sun is gaseous.
C. The moon rotates more quickly than the sun.
D. The moon is closer than the sun to the Earth.

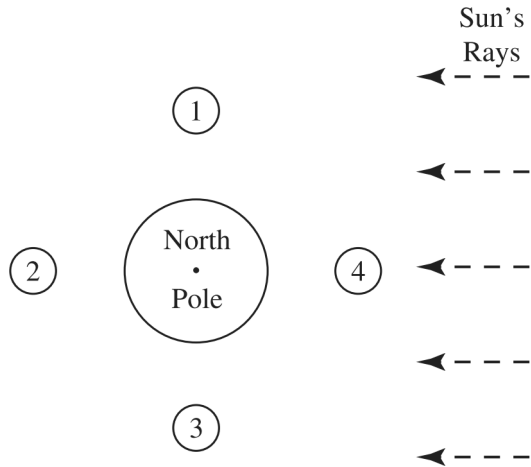
3. Why is there a full Moon approximately once a month?

- A. The Moon revolves around the Earth once a month.
B. The Moon rotates on its axis once a month.
C. The Moon revolves around the Sun once a month.
D. The Moon does not rotate on its axis.

4. Which diagram shows the Earth-moon-sun system arranged to cause a total solar eclipse?



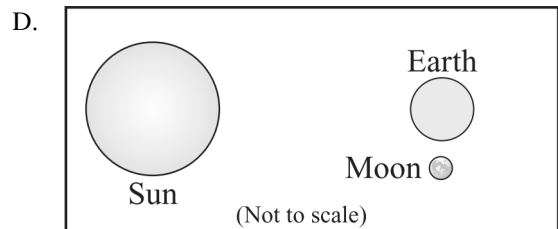
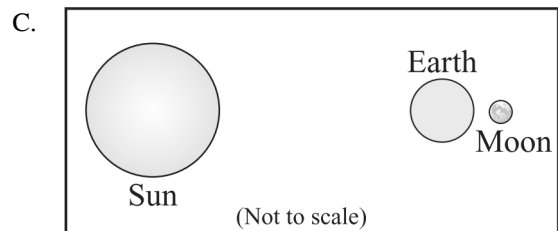
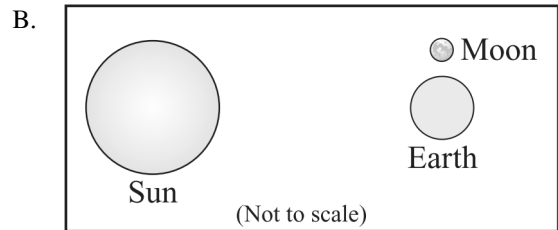
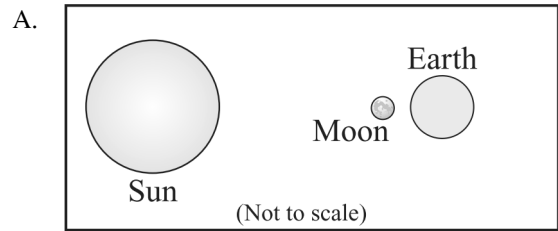
5. The diagram below shows a polar projection of Earth and four positions of the Moon.



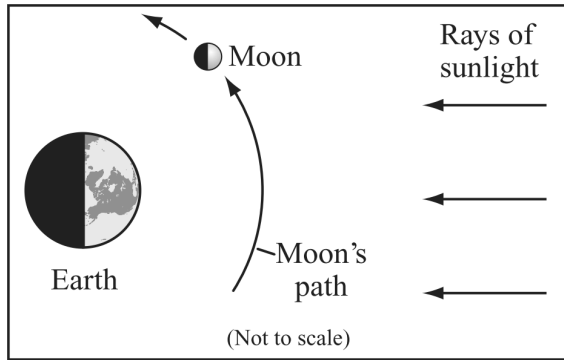
The highest high tides and lowest low tides are called spring tides. Which positions of the Moon produce spring tides in Earth's oceans?

- A. 1 and 2 B. 2 and 4
C. 1 and 3 D. 3 and 4

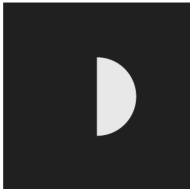
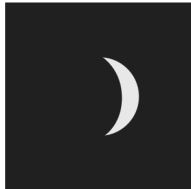
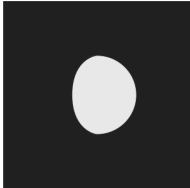
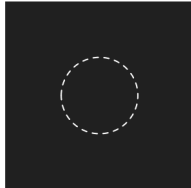
6. Which of the following diagrams *best* shows the relative positions of Earth, the Moon, and the Sun during a lunar eclipse?



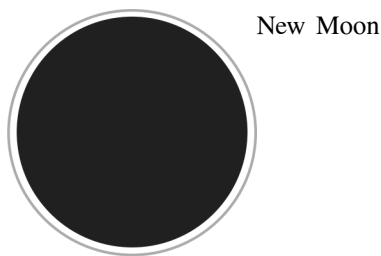
7. The diagram below shows the relative positions of Earth and the Moon and rays of sunlight.



Based on the diagram, which of the following best represents how the Moon would appear as seen from Earth?

- A.  B. 
- C.  D. 

8. A new moon, as viewed from Earth, is diagrammed below.



New Moon

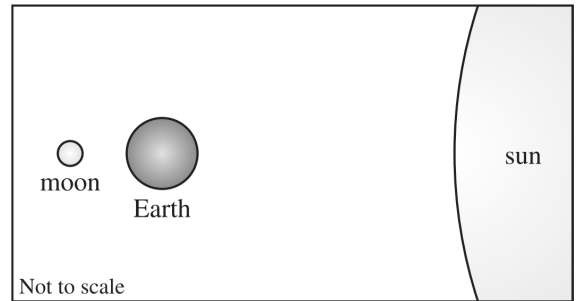
Which statement *best* describes how a new moon occurs?

- A. Earth receives no sunlight.
 B. The moon receives no sunlight.
 C. Earth is between the moon and the sun.
 D. The moon is between Earth and the sun.

9. Along the east coast of the United States, how often do the tides rise and fall?

- A. twice each day B. twice each week
 C. twice each month D. twice each year

10. The diagram below shows the relative positions of Earth, the moon, and the sun.



Which phase of the moon can be observed from Earth when these bodies are positioned in this way?

- A. full moon B. new moon
 C. first quarter D. waxing gibbous