

Name _____
 Date _____
 Period _____

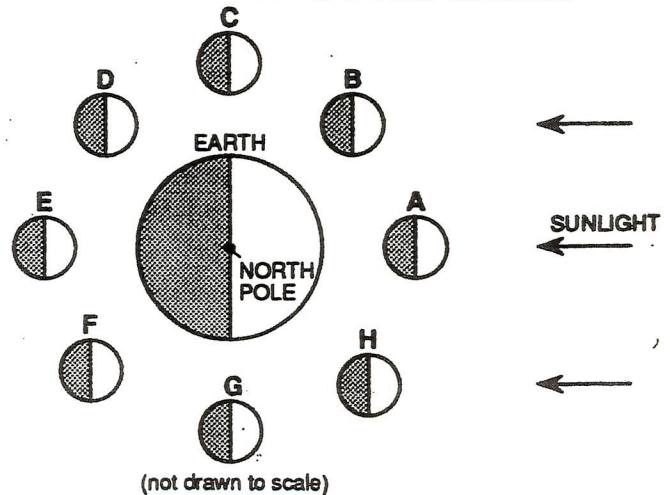
Phases of the Moon Homework

Before working on this assignment read textbook pages 85 -87 and 107 -108.

Part A -

Name the phases of the moon that you would see from Earth based on the diagram below:

The diagram below represents eight positions of the Moon as it revolves around the Earth.



- A) _____
- B) _____
- C) _____
- D) _____
- E) _____
- F) _____
- G) _____
- H) _____

9) How long does a complete cycle of the moon's phases take? _____

Part B - Name the following phases and determine whether they are waxing or waning.

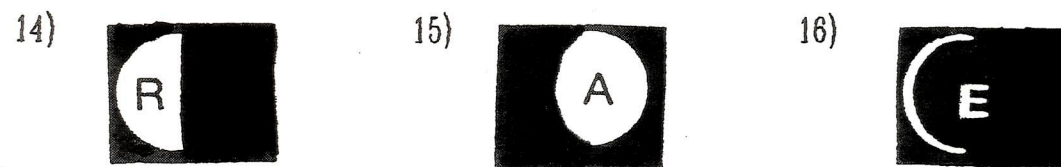


phase _____
waxing or waning

phase _____
waxing or waning

phase _____
waxing or waning

phase _____
waxing or waning



phase _____
waxing or waning

phase _____
waxing or waning

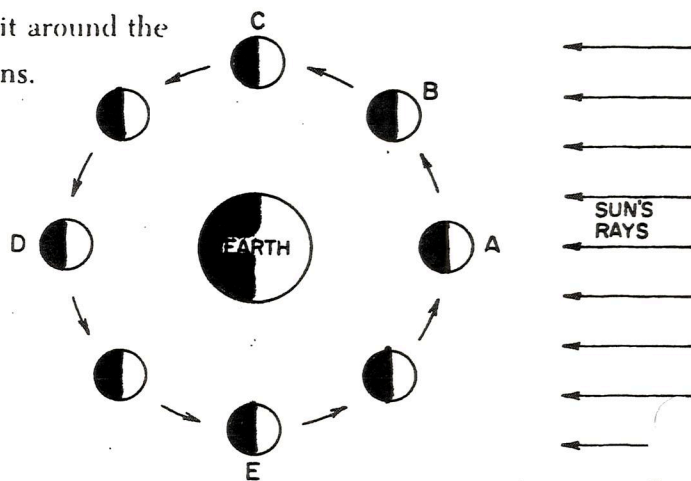
phase _____
waxing or waning

Answer the following questions based on the diagrams in questions 10 - 16.

- 17) What phase would occur between diagram 16 (E) and diagram 10 (O)? _____
- 18) What phase would occur between diagram 15 (A) and diagram 11 (M)? _____
- 19) If the moon looked like diagram 14(R), which number diagram would be observed next in the lunar cycle? _____
- 20) If the moon looked like diagram 10(O), which number diagram would be observed next in the lunar cycle? _____

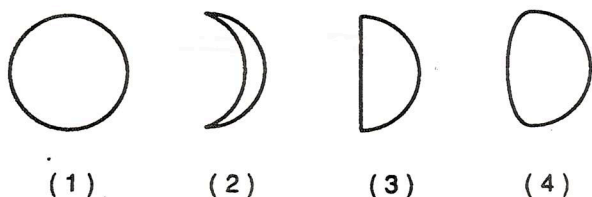
The diagram represents the Moon in various positions in its orbit around the Earth. Letters A through E represent five of the Moon's positions.

Questions 21 - 25



21)

Which diagram best represents the appearance of the Moon to an observer on the Earth when the Moon is at position B?



22)

The Moon would *not* be visible from Earth when the Moon is at position

- (1) A (3) C
(2) E (4) D

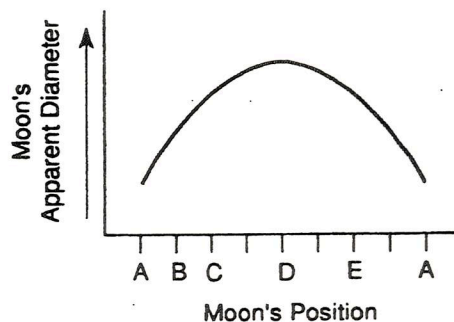
23)

Why would an observer on Earth see a complete cycle of phases of the Moon in approximately 1 month?

- 1 The Moon rotates on its axis.
- 2 The Moon revolves around the Earth.
- 3 The Earth rotates on its axis.
- 4 The Earth revolves around the Sun.

24)

The graph below shows the apparent diameter of the Moon as viewed from Earth during one revolution of the Moon.



According to the graph, at which position is the Moon closest to the Earth?

- (1) A (3) C
(2) E (4) D

Note that question 25 has only three choices.

25)

If the distance of the Moon from the Earth were to increase, the length of time the Moon would take to complete one revolution around the Earth would

- 1 decrease
- 2 increase
- 3 remain the same

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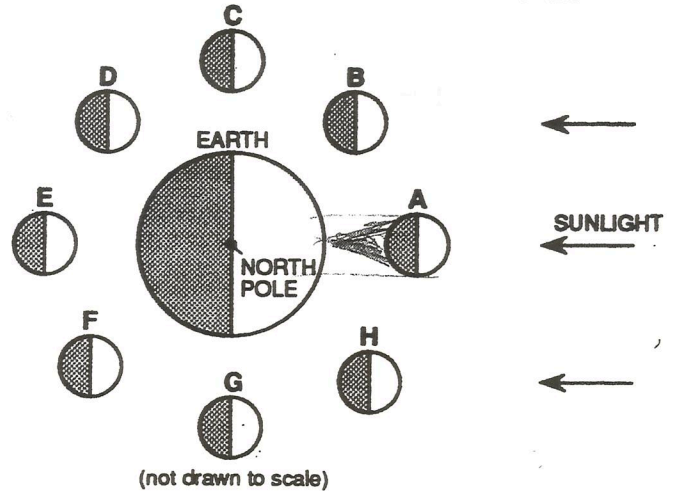
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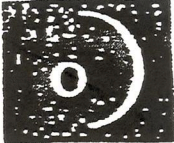
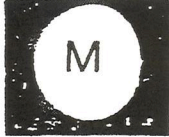


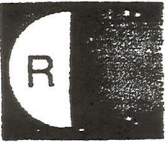
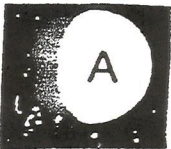



- A) New Moon
- B) New Crescent
- C) 1st 1/4
- D) New Gibbous
- E) Full
- F) Old Gibbous
- G) Last 1/4
- H) Old Crescent

a) How long does a complete cycle of the moon's phases take? 29.5 days

Part B -

Name the following phases and determine whether they are waxing or waning.

- | | | | |
|---|---|--|---|
| 10)  | 11)  | 12)  | 13)  |
| phase <u>Waxing Crescent</u> | phase <u>waning Gibbous</u> | phase <u>1st 1/4</u> | phase <u>waning Crescent</u> |
| waxing or waning | waxing or waning | waxing or waning | waxing or waning |
| 14)  | 15)  | 16)  | |
| phase <u>Last 1/4</u> | phase <u>waxing Gibbous</u> | phase <u>waning crescent</u> | |
| waxing or waning | waxing or waning | waxing or waning | |

Answer the following questions based on the diagrams in questions 10 - 16.

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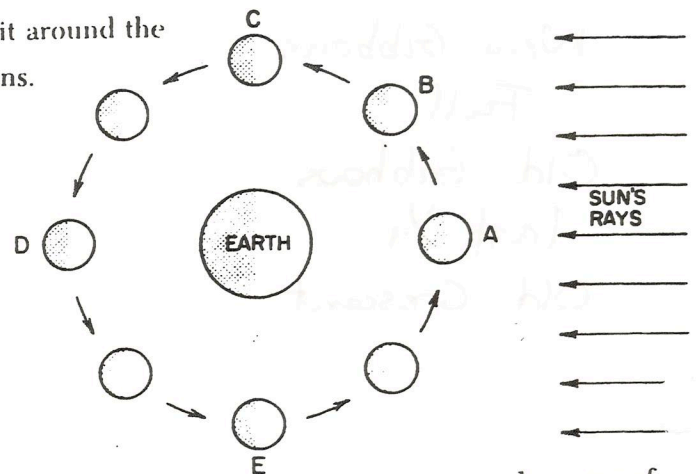
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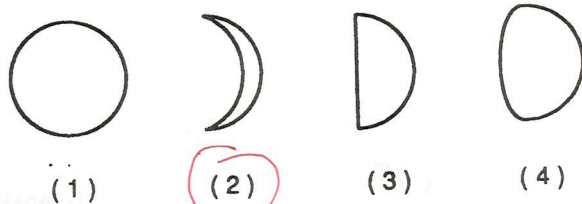
20) If the moon looked like diagram 10(O), which number diagram would be observed next in the lunar cycle? 12

The diagram represents the Moon in various positions in its orbit around the Earth. Letters A through E represent five of the Moon's positions.

Questions 21 - 25



21) Which diagram best represents the appearance of the Moon to an observer on the Earth when the Moon is at position B?



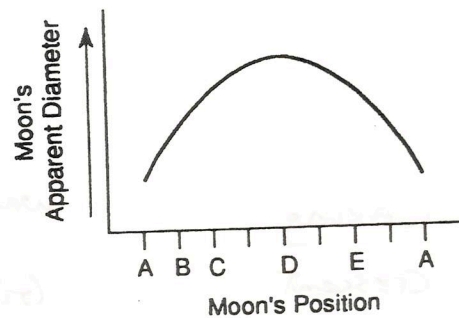
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According to the graph, at which position is the Moon closest to the Earth?

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Note that question 25 has only three choices.

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2 increase
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