

**Exam not valid for Paper Pencil Test Sessions**

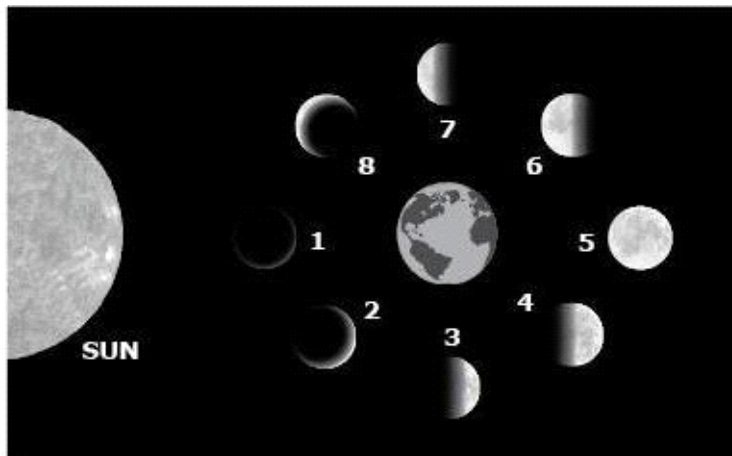
1 **Areas of gas on the Sun that are cooler than the gases around them are known as —**

- A sunspots
- B solar wind
- C solar flares
- D prominences

2 **What causes the Earth to have seasons?**

- A The revolution of the Earth around the Sun
- B The tilt of the Earth's axis
- C The distance of the Earth from the Sun
- D The tilt of the Earth's axis and the revolution of the Earth around the Sun

3

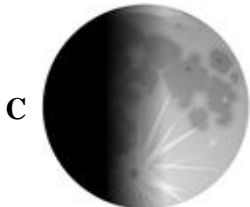
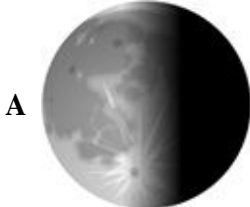


**What phase of the moon is labeled 5?**

- A Last quarter
- B First quarter
- C Full moon
- D New moon

- 4 **What is known as a stream of electrically charged particles produced by the Sun's corona?**
- A Solar wind
  - B Prominences
  - C Solar flares
  - D Sunspots

- 5 **Which moon is a waning crescent?**



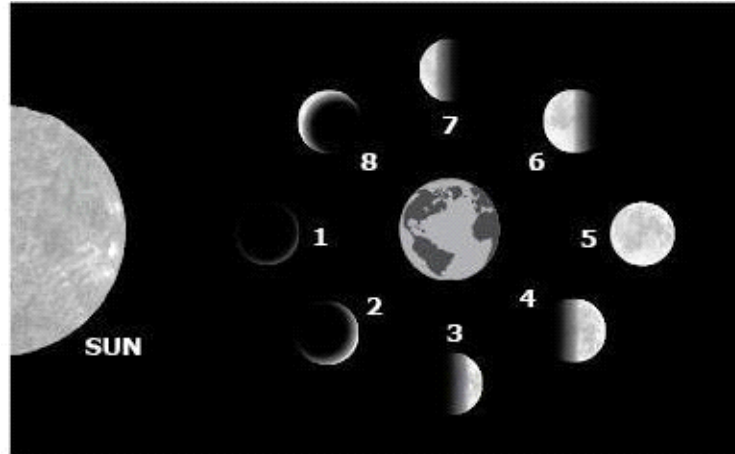
- 6 **What is the name of the planet closest to the Sun?**
- A Venus
  - B Mercury
  - C Earth
  - D Mars

- 7 **How many planets are in the solar system?**
- A 8
  - B 7
  - C 9
  - D 6

8 **The moon revolves around the Earth in about —**

- A one week
- B one day
- C one year
- D one month

9



**What phase of the moon is labeled 8?**

- A Waning gibbous
- B Waxing gibbous
- C Waxing crescent
- D Waning crescent

10 **The Earth is tilted at an angle of —**

- A  $23^\circ$
- B  $45^\circ$
- C  $23.5^\circ$
- D  $90^\circ$

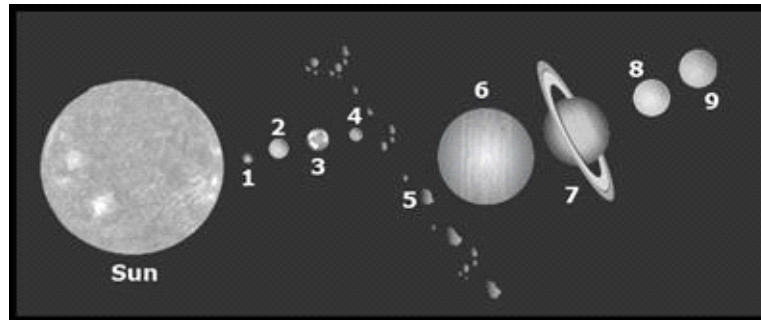
11 **What is the name of the round pits found on the surface of the moon?**

- A Maria
- B Craters
- C Asteroids
- D Meteors

12 **Earth spinning on its axis is called —**

- A rotation
- B retrograde rotation
- C revolution
- D orbit

13



**The item labeled 4 is the planet —**

- A Mars
- B Mercury
- C Earth
- D Venus

14 **What occurs at a full moon when the Earth is directly between the moon and the Sun?**

- A A partial lunar eclipse
- B A solar eclipse
- C A lunar eclipse
- D A partial solar eclipse

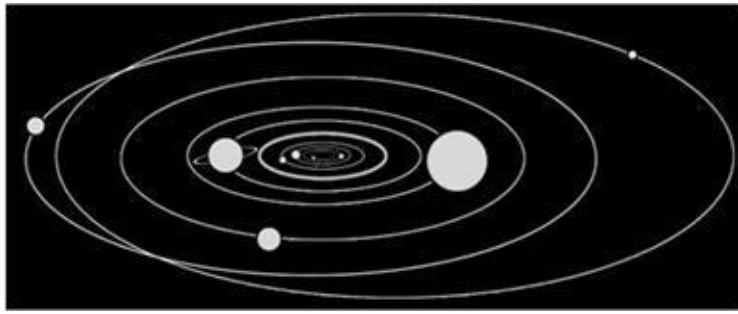
15 **What is an imaginary line around the center of the Earth?**

- A The Arctic Circle
- B The Tropic of Capricorn
- C The Tropic of Cancer
- D The Equator

16 **How many phases of the moon are there?**

- A 8
- B 6
- C 7
- D 5

17

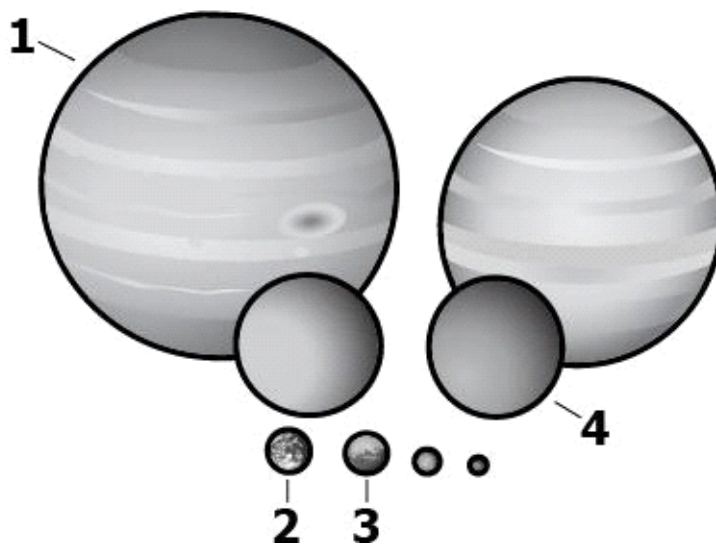


**Which planet revolves the fastest around the Sun?**

- A Mercury
- B Earth
- C Venus
- D Jupiter

18

**Size Comparison of Planets within the Solar System**



**Which planet is Earth?**

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

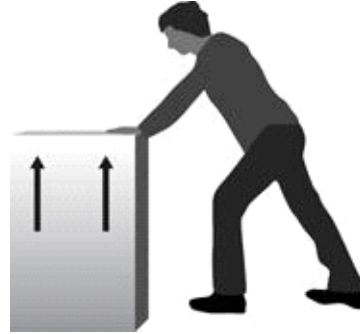
19 **What is an imaginary line of latitude located near the North Pole?**

- A The Antarctic Circle
- B The Tropic of Capricorn
- C The Equator
- D The Arctic Circle

20 **What is the name of the dark, flat areas found on the surface of the moon?**

- A Maria
- B Craters
- C Seas
- D Plains

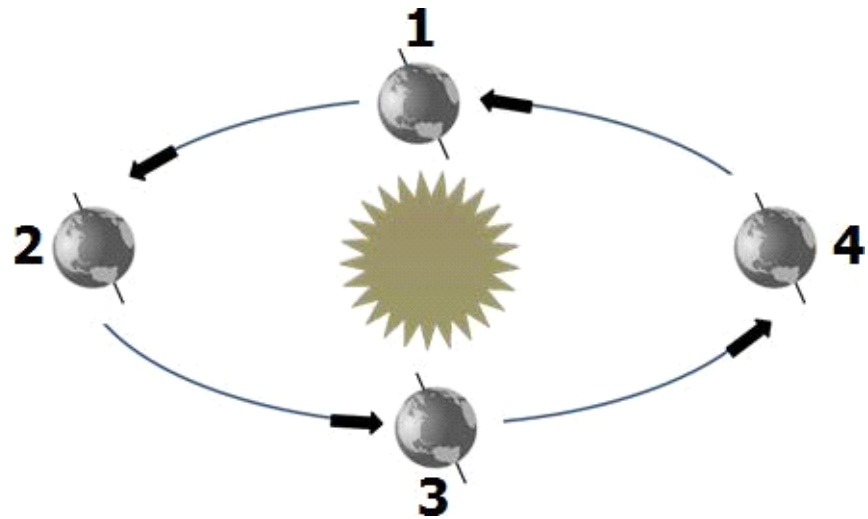
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**What force is pushing the box and floor together?**

- A inertia
- B gravity
- C the boy
- D the box

22

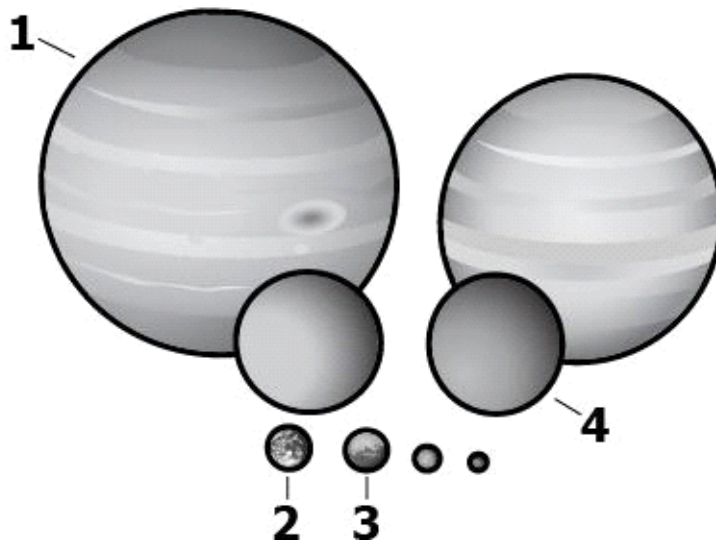


**What season is the Northern Hemisphere experiencing during phase number 3?**

- A Winter
- B Spring
- C Summer
- D Autumn

- 23 **Which scientist believed that the Earth was at the center of the solar system and the orbits were elliptical shaped?**
- A Copernicus
  - B Kepler
  - C Aristotle
  - D Ptolemy
- 24 **What occurs when the moon passes directly between the Earth and the Sun?**
- A A new moon
  - B A solar eclipse
  - C A lunar eclipse
  - D A full moon

- 25 **Size Comparison of Planets within the Solar System**



**What planet is represented by number 4?**

- A Neptune
  - B Earth
  - C Mercury
  - D Saturn
- 26 **How often does leap year occur?**
- A Every 4 years
  - B Every 6 years
  - C Every year
  - D Every 2 years

27 **Which planet has hundreds of rings made of chunks of ice and rock?**

- A Mars
- B Saturn
- C Venus
- D Mercury

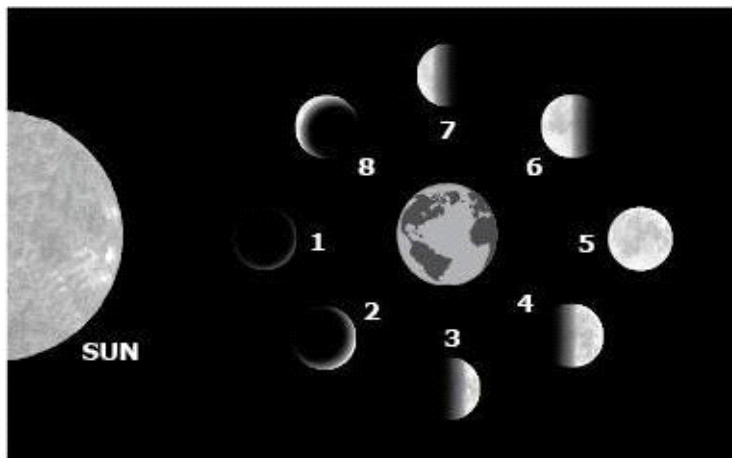
28 **Which two seasons have a solstice?**

- A Fall and winter
- B Summer and winter
- C Spring and fall
- D Spring and summer

29 **The shortest day of the year in the northern hemisphere occurs during which month?**

- A June
- B March
- C December
- D September

30



**What phase of the moon is labeled 1?**

- A New moon
- B First quarter
- C Last quarter
- D Full moon

31 **What is a chunk of rock or dust in space?**

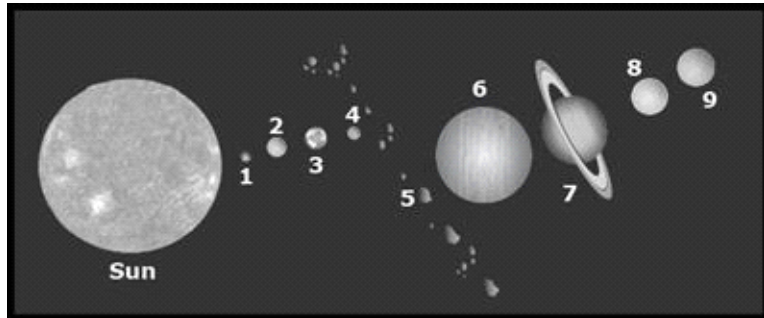
- A Comet
- B Meteor
- C Meteoroid
- D Meteorite



32 **A comet's tail normally points —**

- A down
- B toward the sun
- C away from the sun
- D up

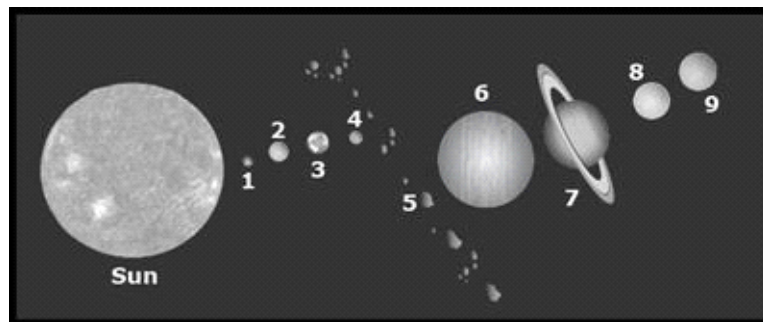
33



**Which planet is labeled 3?**

- A Mars
- B Earth
- C Mercury
- D Venus

34



**The item labeled 3 is the planet —**

- A Mercury
- B Mars
- C Earth
- D Venus

35 **What is the main cause of the tides on Earth?**

- A The gravitational pull of the Earth
- B The revolution of the Earth around the Sun
- C The rotation of the Earth on its axis
- D The gravitational pull of the moon

**36 Which phase of the moon is known as a “three-quarter moon”?**

- A Last quarter
- B Waning gibbous**
- C Waning crescent
- D Waxing crescent
































**37 Day and night are caused by —**

- A the revolution of the Earth around the Sun
- B the tides**
- C the tilt of the Earth’s axis
- D the rotation of the Earth on its axis

**38 The vernal equinox occurs during which season?**

- A Summer
- B Spring**
- C Fall
- D Winter

## March 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 	2 	3 
4 	5 	6 	7 	8 	9 	10 
11 	12 	13 	14 	15 	16 	17 
18 	19 	20 	21 	22 	23 	24 
25 	26 	27 	28 	29 	30 	31 

**During the month of March in 2012, when did the coastal regions experience the lowest low tide?**

- A March 22, 2012
- B March 30, 2012
- C March 8, 2012
- D March 5, 2012

**40 The force that holds the planets in orbit around the sun is called—**

- A pressure
- B gravity
- C motion
- D friction

**41 Which of these resources would give the most current, complete and accurate information on planets?**

- A The NASA website
- B Planet website by Round Rock Middle School
- C A science book about the planets
- D A set of general encyclopedias

42 **The density of an object is dependent upon the object's mass and—**

- A weight
- B height
- C area
- D volume

43

Planet	Atmosphere	Composition	Temperature Range
W	Carbon Dioxide & Argon	Rocky	-284° F to 68° F
X	Nitrogen & Oxygen	Rocky	-92° F to 136° F
Y	Helium & Hydrogen	Gas	-261° F to >-185° F
Z	Potassium & Sodium	Rocky	-279° F to 800° F

**Which planet in the chart is most likely Earth?**

- A Planet W
- B Planet Y
- C Planet X
- D Planet Z

44 **Which statement about revolution is correct?**

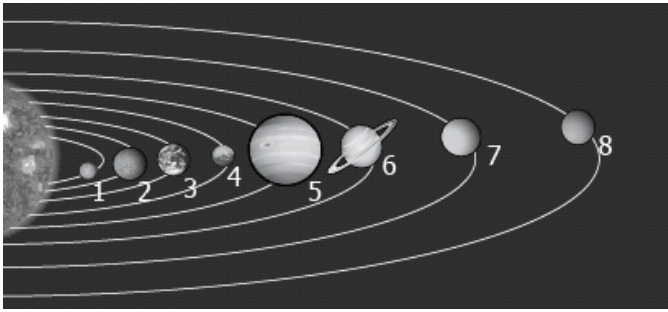
- A Jupiter revolves around its moons.
- B Earth revolves around the moon.
- C The sun revolves around Earth.
- D The moon revolves around Earth.
- E Venus revolves around Earth.

45 Directions: Click on each planet you want to select. You must select all correct planets.

**Identify the two planets that do NOT have any moons.**

Uranus	Earth	Mars	Venus
Saturn	Jupiter	Neptune	Mercury

46 Directions: Type your answer in the box.



**Which planet is labeled number 5?**

47 Directions: Type your answer in the box.

**What is the largest planet in our solar system?**

48 Directions: Type your answer in the box.

**What is the name of the force that keeps the planets in orbit around the sun?**

49 Directions: Click on each answer you want to select. You must select all correct answers.

**Which statements describe the properties of the Earth?**

Carbon dioxide and oxygen make up most of the Earth's atmosphere.

Scientific evidence indicates the Earth is about 3.5 billion years old.

The Earth is covered with oceans and has frozen ice caps in its polar regions.

The Earth is protected from harmful solar radiation by its atmosphere and magnetic field.

50 Directions: Click on each answer you want to select. You must select two correct answers.

**Which two scientists believed the sun was at the center of the solar system?**

Copernicus

Galileo

Aristotle

Ptolemy