- 1. Which of the following sea creatures is a mammal?
 - A) Bottle-nosed dolphin
 - B) Box jellyfish
 - C) Dungeness crab
 - D) Giant squid
- 2. The picture below shows which type of impending natural disaster?

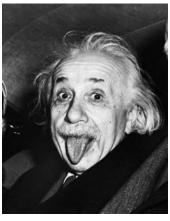


- A) Tornado
- B) Hurricane
- C) Blizzard
- D) Volcanic eruption
- 3. Which of the following is <u>NOT</u> a layer of the earth's atmosphere and is a term usually used in geography instead?
 - A) Stratosphere
 - B) Troposphere
 - C) Thermosphere
 - D) Hemisphere
- 4. Which of the following is true about the bird seen here?



- A) It is called a peregrine falcon
- B) It is the fastest animal on Earth, reaching speeds of 200 mph when it dives
- C) It is found on every continent except Antarctica
- D) All of the above

- 5. Your question writer was born in 1981. Therefore, when I was your age...
 - A) None of the moons of Jupiter had yet to be discovered
 - B) Pluto was still considered a planet
 - C) Humans had already set foot on Mars
 - D) Mammoths and Mastodons still roamed the earth as the last Ice Age hadn't yet ended
- 6. The man shown here is famous for discovering which of the following?



- A) Chaos theory
- B) Cell theory
- C) Theory of general relativity
- D) Theory of evolution
- 7. Which of the following organisms does **NOT** migrate?
 - A) Monarch butterfly
 - B) Ruby-throated hummingbird
 - C) Humpback whale
 - D) Poison oak
- 8. Which type of gemstone, the birthstone of the month of September, is shown here?



- A) Ruby
- B) Emerald
- C) Sapphire
- D) Garnet

- 9. Which of the following biomes contains the highest levels of biodiversity?
 - A) Tundra
 - B) Mediterranean scrubland
 - C) Tropical rainforest
 - D) Cold desert
- 10. Meet Sue! That's the name of the skeleton at the Field Museum in Chicago shown here. What type of dinosaur was she?



- A) Stegosaurus
- B) Pterodactyl
- C) Tyrannosaurus rex
- D) Triceratops
- 11. The branch of science that deals with the fundamental structure of matter, its behavior in space and time, as well as energy and force is known as what?
 - A) Physics
 - B) Organic chemistry
 - C) Biology
 - D) Meteorology
- 12. The photo shown here was taken where?

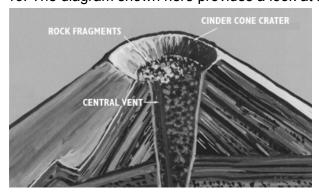


- A) South of the Antarctic Circle
- B) In a steppe environment
- C) In a subarctic climate zone
- D) Between the Tropic of Cancer and the Equator

- 13. Which of the following is found between Mars and Jupiter?
 - A) The asteroid belt
 - B) The comet collar
 - C) The meteor hoodie
 - D) The supernova scarf
- 14. Solve the Roman numeral math problem by selecting the correct Roman numeral:

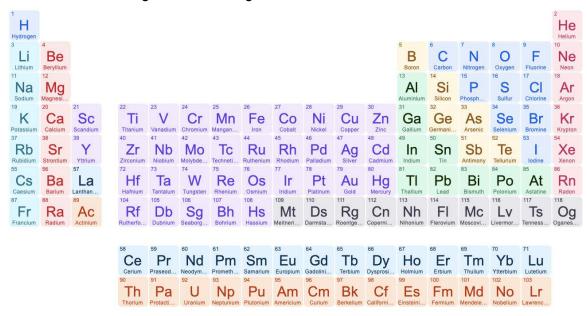
|V + V| = ?

- A) X
- B) C
- C) D
- D) M
- 15. In biological classification, which term fills in the blank in the sequence here: Kingdom, phylum, class, order, _____, genus, species
 - A) Flock
 - B) Family
 - C) Conglomerate
 - D) Clade
- 16. The diagram shown here provides a look at a cross-section of what?

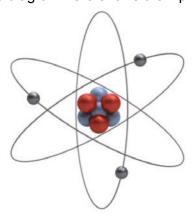


- A) Monolith
- B) Volcano
- C) Glacier
- D) Trench
- 17. In which month is the Earth's axis tilted farthest from the sun for the continental USA?
 - A) February
 - B) December
 - C) June
 - D) September

18. What is the name given to the image shown here?



- A) Venn diagram
- B) Punnett square
- C) Periodic table of the elements
- D) Bohr's model of the atom
- 19. How many moons do the first three planets from the sun have combined?
 - A) Zero
 - B) One
 - C) Four
 - D) Seventeen
- 20. The diagram here shows a simplified version of what?



- A) The Solar System
- B) An atom
- C) Galaxy formation
- D) A glucose molecule

- 21. What daughter of the British poet Lord Byron is considered to be one of the first-ever computer programmers due to her work on algorithms?
 - A) Ada Lovelace
 - B) Marie Curie
 - C) Valentina Tereshkova
 - D) Sally Ride
- 22. The image here is a partial diagram of what system in the human body?



- A) Immune
- B) Digestive
- C) Respiratory
- D) Circulatory
- 23. What optical instrument is best used to view the parts of a plant cell?
 - A) Telescope
 - B) Prism
 - C) Microscope
 - D) Binoculars
- 24. "Oh the humanity!" was famously cried by a radio announcer during a disaster that was caused by what?



- A) The use of flammable hydrogen gas in the airship
- B) An accidental use of nuclear weapons
- C) Frozen precipitation
- D) A meteorite puncturing the shell of the airship

- 25. Which of the following shapes is defined as the set of all points in a two-dimensional plane that are equidistant from one point in the center?
 - A) Square
 - B) Sphere
 - C) Circle
 - D) Triangle
- 26. Which type of renewable energy is generated by the structure shown here?

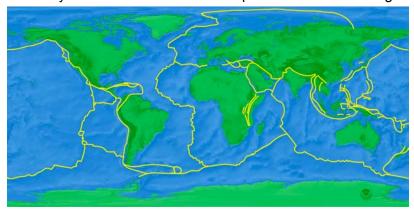


- A) Hydroelectric
- B) Geothermal
- C) Wind
- D) Solar
- 27. Which of the following animals only lives in the wild in Asia?
 - A) Tiger
 - B) Lion
 - C) Elephant
 - D) Cheetah
- 28. The plant shown here, native to the Carolinas, is famous for its ability to do what?



- A) Trap and eat insects
- B) Cause an itchy rash if touched by human skin
- C) Produce tasty citrus fruit
- D) Survive without water for over a year

- 29. Which term is used to refer to both the center of an atom and the control center of a cell?
 - A) Generator
 - B) Mitochondria
 - C) Nucleus
 - D) Proton
- 30. The yellow lines on the world map below outline the edges of what features?

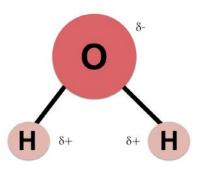


- A) The limits of continental crust
- B) Earth's magnetic fields
- C) Earth's tectonic plates
- D) Climate zones
- 31. Which of the following is widely accepted to be the primary reason the dinosaurs went extinct?
 - A) The onset of the most severe Ice Age in the earth's history
 - B) A collision between the earth and the moon
 - C) A variant of bubonic plague which overwhelmed their ability to fight off disease
 - D) An asteroid colliding with the earth off the Yucatan Peninsula in Mexico
- 32. Which planet is shown here in a photograph from the Hubble Telescope?

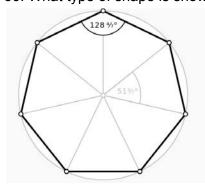


- A) Jupiter
- B) Saturn
- C) Mars
- D) Neptune

- 33. Which of the following is considered to be a greenhouse gas, which can cause global warming when released in large quantities?
 - A) Carbon dioxide
 - B) Nitrogen
 - C) Oxygen
 - D) Argon
- 34. Which molecule is depicted in the model here?



- A) Ozone
- B) Benzene
- C) Water
- D) Potassium sulfate
- 35. Which of the following is considered to be a producer in a rainforest food chain?
 - A) Turkey vulture
 - B) Harpy eagle
 - C) Papaya tree
 - D) Anaconda
- 36. What type of shape is shown below inscribed in a circle?



- A) Hexagon
- B) Pentagon
- C) Heptagon
- D) Octagon

- 37. If someone is described as lactose intolerant, which of the following foods would they have difficulty digesting?
 - A) Bread
 - B) Milk
 - C) Fish
 - D) Green vegetables
- 38. Which snake's range is shown in the map here?



- A) Desert sidewinder
- B) Timber rattlesnake
- C) King cobra
- D) Boa constrictor
- 39. Which of the following diseases was responsible for more human deaths than the other three diseases combined in 2021?
 - A) Rabies
 - B) Ebola
 - C) Malaria
 - D) Smallpox
- 40. The red and white-colored organism in the photo shown here belongs to which of the following kingdoms?



- A) Animalia
- B) Plantae
- C) Fungi
- D) Protozoa

- 41. At standard temperature and pressure, in what state of matter does platinum occur?
 - A) Solid
 - B) Liquid
 - C) Gas
 - D) Plasma
- 42. The animals shown here are described by what term, also used to describe opossums, wallabies, and koalas?

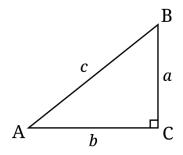


- A) Apex predator
- B) Marsupial
- C) Cold-blooded
- D) Amphibian
- 43. Which natural phenomenon was extensively studied by the English scientist Isaac Newton?
 - A) Animal migration
 - B) Gravity
 - C) Extrasolar planets
 - D) Quantum mechanics
- 44. What term is used to describe the event shown here (which one should never look at directly with naked eyes)?

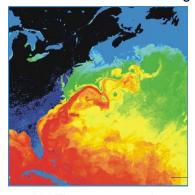


- A) Lunar eclipse
- B) Solar eclipse
- C) Aurora borealis
- D) Cumulonimbus

- 45. Which of the following materials can be described as a fossil fuel, meaning that it consists of formerly organic material that can be burned to release energy?
 - A) Diamonds
 - B) Coal
 - C) Stainless steel
 - D) Brass
- 46. Because it contains a 90 degree angle, what term is used to describe the triangle shown here?



- A) Equilateral
- B) Right
- C) Obtuse
- D) Acute
- 47. If you read the side of a cereal box, you may see the terms "Riboflavin," "Niacin," and "Thiamin." These are all types of what?
 - A) B Vitamins
 - B) Fiber
 - C) Fats
 - D) Proteins
- 48. The color red in this diagram represents what?



- A) The warmest air temperatures above the ocean
- B) The coldest air temperatures above the ocean
- C) The warmest water temperatures in the ocean
- D) The coldest water temperatures in the ocean

- 49. Which of the following trees is considered to be coniferous and is commercially grown for use as a Christmas tree?
- A) White oak
- B) Palmetto
- C) Douglas fir
- D) Ginkgo
- 50. The woman shown here will soon need the help of which type of professional?



- A) Obstetrician
- B) Gerontologist
- C) Optometrist
- D) Marine biologist