

A SET OF QUESTIONS FOR US

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There are a lot of trivia and intelligence tests online, but I thought I would offer you something a little different. You can either take this test or just look at it, as you wish. No one will ever know your score. In a paper on the SAT, I reminded you that test is not very old. It came out of the Army about a hundred years ago, but before that college entrance exams were much longer and harder. High school or prep school seniors in the US or UK would be tested on actual knowledge in many subjects before winning a place at Oxford, Cambridge, Harvard, Yale, or other colleges of that caliber. So I thought it might benefit us to see what they knew. That will help us understand what we do NOT know—a very important part of any education.

Unlike so-called IQ tests, there are no questions here on word jumbles, simple stated math problems, or pattern recognition. As I have reminded you recently, that is the way they have decided to measure native intelligence, hard as it is to believe. Which explains why the superhigh-IQ have never done much of anything except sit on the pages of the Guinness Book of World Records and make crossword puzzles. There are also no questions here on Hollywood, sports, TV, pop music, current politics and literature, or pop culture in any other form.

I do this for several reasons. One, many readers have asked me for a new syllabus for homeschooling children. I have already overwritten so much history and science we now need a whole new set of textbooks. This test won't really address that question, but it will point us in the right general direction. In my opinion, before overwriting history we need to reverse it many decades, and this test will show one way to do the first part. Two, this will remind us how far we have fallen in just one hundred years. As such, it will be just one more testament to the failures of our “leaders”.

This test is actually much shorter than the old entrance tests, but it will stand as an example of what they contained. Some of these questions would be considered tough even to the most highly educated, and I am not implying prep school seniors would know all of them, or even a majority. If you know everything at age 18, why go to university at all? But top seniors 100 years ago would know more of these than you might imagine. Top college grads would know even more. [See University Challenge on Youtube.] They were actually “prepped” for college and life, not just babysat in pep rallies and gender studies.

You may use pencil and paper.

PHYSICS

1. Briefly state Newton's first law of motion.
2. State Galileo's Law of falling bodies.
3. Technically, is gravity a force or an acceleration? In other words, what is g ?
4. What is G ? Did Newton know its value?
5. If you are looking at random motion at the molecular level, you are looking at what phenomenon famously studied by Einstein?
6. Kepler's law of planetary motion says what regarding equal times?

7. Does the Higgs Boson give mass to matter? Do quarks and gluons and electron holes exist? Does the vacuum have potential? Can you borrow from the vacuum? Are there time reversals? Is there negative mass? Can the mass of an electron go one direction while its spin goes another?
8. As you fly higher, you get nearer the Sun. So why does it get darker?
9. Other than mass, what else is gravity dependent upon?
10. If light goes through a small hole it is bent. What is this phenomenon called?
11. When light goes through a prism, it is also bent. Which is bent more, red light or violet light?
12. If you are given an electrical current moving in a wire straight at you, what direction is the magnetic field moving?
13. What does LASER stand for?
14. If the Earth stopped spinning, would you weigh more, less, or the same? Why?
15. As you go very high in an airplane or rocket, does your weight increase, decrease, or stay the same? Why?
16. Where does heat fall in the electromagnetic spectrum?
17. What is heat made of?
18. According to the mainstream interpretation of Schrodinger's Cat, was the cat alive, dead, neither, or both?
19. Inertia is primarily a function of a) velocity, b) momentum, c) gravity, d) mass, e) kinetic energy, f) vacuum potential.
20. What are the primary colors of subtractive theory?
21. Which one of those is not on the prismatic spectrum?
22. What is the SI unit of energy?
23. What particles are most often smashed together in particle accelerators?
24. Which is hotter, the Solar Core or the Solar Corona?
25. How many volts are in a wall socket in the US? In Europe?
26. Who invented the electric motor?
27. Who drew the first plans for a workable engine? A workable car? An airplane? [one person]
28. Who invented radio, wireless, and AC?
29. State Archimedes' Law.
30. What is Planck's Constant? What is it hiding?

ASTRONOMY

1. Give the distance to the Sun in miles, kilometers, *or* time traveled by light to the nearest minute.
2. There is a dwarf planet within the asteroid belt. Name it.
3. How was the Crab Nebula created?
4. Give the size of the Moon as a fraction of the Earth, either as a matter of mass, radius, or volume.
5. What kind of stars are Betelgeuse and Aldebaran?
6. Why are radiowaves used in astronomy?
7. What is parallax?
8. What is the percentage of "dark matter" in the universe?
9. What is the Doppler Effect? Is it connected to Relativity?
10. Which is denser, Jupiter or Saturn? The Sun or the Earth?
11. Which planet is spinning backwards? Which planet is lying on its side?
12. How far is it to the nearest galaxy in lightyears? That is equivalent to about how many galaxies laid end to end?
13. What are stars mostly made of?

14. Where is the Oort Cloud? Why is it important?
15. True or false: scientists have found meteorites containing sugar.
16. Which planet is moving faster? Mars or Mercury?
17. Which is hotter: the surface of Mercury or the upper atmosphere of Uranus?
18. Is Venus ever full, as in a full Moon, as seen by us? Why or why not?
19. You know what a lightyear is. Well, how far does light travel in a year? Please answer in miles or kilometers, to the nearest hundred million, without looking up the speed of light. You may use a calculator for this question.
20. State the radius (not diameter) of the Earth, in miles or kilometers, to the nearest ten.
21. Name the nearest star and galaxy, not including the Sun or the Milky Way.
22. Does the Moon spin relative to the Earth? Does it spin relative to the Sun?
23. Who first knew the Earth orbited the Sun? Hint: it isn't Copernicus.
24. What is the difference between a comet and an asteroid?
25. Which constellation would you look to to find the galactic core?
26. What causes the Solar Cycles?
27. Who discovered Uranus in 1781?
28. Who first saw the rings of Saturn in a telescope? What are they made of?
29. What is the largest moon of Saturn?
30. How much more light is Enceladus "reflecting" than is falling on it?

CHEMISTRY

1. According to Newton, who invented atomic theory? Which Greek was the first?
2. Which has a higher atomic number, gold or silver?
3. Give the formula for the hydroxide ion.
4. Name a group one element.
5. Organic compounds are primarily made of what two elements?
6. State the ideal gas law in variables.
7. State the second law of thermodynamics in words.
8. What is the molar mass of water?
9. What is the ratio of proton to electron mass, to the nearest ten?
10. Why are the Noble gasses called that?
11. Combustion is a reaction with what element?
12. What is the most reactive of all elements?
13. What is the most conductive element?
14. What are semiconductors usually made of?
15. The Balmer series refers to what element?
16. Who discovered X-rays? What are they?
17. What is an ion?
18. What would you get when you mix hydrochloric acid and calcium carbonate? [Three products]
19. Is photosynthesis endothermic or exothermic?
20. What is the most efficient heat engine? Hint: it is named for a male scientist from 1824.
21. Name an element other than Mercury that is liquid at room temperature.
22. How many *stable* isotopes does Hydrogen have?
23. What is the simplest aromatic compound? What is special about it?
24. What is a mole? Whose number is used to define the mole?
25. Who discovered the electron?
26. What is radioactivity? Who discovered it and how?
27. Is alchemy now possible?

28. What is an alpha particle?
29. What is the most abundant mineral in the human body?
30. Marie Curie discovered something in pitchblende more radioactive than Uranium. What was it?
31. Who discovered the structure of the atomic nucleus in 2011?

BIOLOGY

1. What is the largest feline?
2. What is the classification below "order"?
3. What single-celled organism is not in a taxonomic group, but is found in every major lineage of eukaryotic organisms?
4. The platypus is one of five existing species of what?
5. What self-propelled entities with no known method of locomotion aid in the replication and repair of DNA by acting as catalysts?
6. What is the main filter of the human body?
7. What is the scientific name for butterflies and moths? In other words, their order.
8. A lichen is a composite organism. Name either part.
9. What bird has the largest wingspan?
10. Could Andrew Jackson have read about gorillas?
11. Name three differences between African and Indian elephants.
12. Starfish are in what phylum?
13. What are your fingernails made out of?
14. How big is a bacterium?
15. Do antibacterial soaps work against bacteria? Do they work against viruses?
16. What does the endocrine system do? Name one major part of it.
17. Who discovered the full function of the circulatory system?
18. What does a mitochondrion do? They have many features in common with _____.
19. What are gymnosperms? How are they different from angiosperms?
20. What part of the eye is like film in a camera?
21. What kind of acid does the stomach use to break down food?
22. What is the pH of human blood?
23. Iron is mainly used where in the human body?
24. Where is the pituitary gland? What does it regulate?
25. What is the main component of connective tissue and the most abundant protein in mammals?
26. What is amber?
27. Do giant redwoods have larger xylem tubes than smaller plants?
28. Do elephants have larger arteries and veins than smaller animals?
29. An educated chimp knows about as many human words as a child of age ____.
30. What living organisms far outweigh any others as a matter of total tonnage?

VOCABULARY

1. Which of these words is a synonym of "reincarnation"?
 - a. palingenesis
 - b. coinstantiation
 - c. metempsychosis
 - d. posthabilitation
 - e. alterabesis
 - f. all of the above

g. a and c only

h. b and d only

2. In rhetoric, there is a term for using understatement or double negatives for an effect. What is it?
3. Are the words “enervated” and “lassitudinous” more nearly synonyms or antonyms?
4. What is the meaning of *de trop*?
5. If someone describes you as “fey”, is that a good thing or a bad thing?
6. Where would you be if you were looking at an “apse”?
7. What is the French word for “body”?
8. What is the Italian word for the season “spring”?
9. What is the Spanish word for “bullfight”?
10. What is the German word for “world weariness”?
11. What does “*adversus solem ne loquitor*” mean?
12. What does “*de gustibus non disputandum*” mean?
13. What is a *sine qua non*?
14. If you are “quixotic”, what are you? What is the reference there?
15. If you “bowdlerize” something, what have you done?
16. What is “pulchritude”?
17. If Becky Sharp is taking her “ablutions”, what is she doing?
18. If you are described as “impecunious”, what do you lack?
19. If you are “zaftig”, what are you?
20. What is a “sirocco”?
21. If a French girl tells you to meet her *apres midi*, what is she telling you?
22. If an Italian man says *va bene*, what has he told you?
23. What does *schadenfreude* mean?
24. What is a *chiasmus*?
25. What is a *hysteron proteron*?
26. What is the difference between “solipsism” and “solecism”?
27. What does “unctuous” mean?
28. Define “redolent”.
29. Define “nacreous”.
30. Define “loquacious”.

LITERATURE

1. Heathcliff and Cathy appear in what novel by whom?
2. Beowulf was written in what year, to the nearest thousand?
3. What dialogue with Prince Arjuna is considered a central text of Hinduism?
4. What is a *bildungsroman*? Name one.
5. What is the first picaresque novel in English? What does picaresque mean?
6. Who wrote a famous poem in English about daffodils?
7. Uriah Heep is a character in which novel by whom? Describe him briefly.
8. Edgar Allen Poe wrote a famous poem to a girl. Name her.
9. How many lines are in a sonnet? What is the most common meter in English, as with Shakespeare?
10. In what work by Shakespeare is mentioned Queen Mab, the fairies' midwife?
11. Who wore the Scarlet Letter and why?
12. What French author was involved in the Dreyfus Affair?
13. Who ridiculed Leibniz's claim that this was “the best of all possible worlds”?

14. Who was the antagonist in *Faust*? Who was the love interest?
15. "*Arma virumque cano*" is the first line of what famous work by whom? What does it mean?
16. What famous prophetess was the wife of Lappidot and appears in the book of Judges advising Barak?
17. In which book of the New Testament do you find this: "for whatsoever a man soweth, that shall he also reap"?
18. Who wrote *Death in Venice*?
19. What poetess was born on Lesbos in 630BC?
20. Who wrote this: "How do I love thee, let me count the ways"?
21. Who wrote this: "She walks in beauty, like the night, of cloudless climes and starry skies."
22. Who wrote this: "The force that through the green fuse drives the flower, drives my green age."
23. Who wrote this: "If you really want to hear about it, the first thing you'll probably want to know is where I was born, and what my lousy childhood was like, and how my parents were occupied and all before they had me, and all that David Copperfield kind of crap, but I don't feel like going into it, if you want to know the truth."
24. Who wrote this: "Call me Ishmael".
25. Who wrote *The Rise and Fall of the Roman Empire*?
26. Who wrote this: "It was a dark and stormy night".
27. Who is considered the greatest haiku poet by the Japanese?
28. Who wrote this: "In the beginning was the Word, and the Word was with God, and the Word was God."
29. Who wrote Psalms?
30. Who wrote the Koran? Hint: it wasn't Muhammad. What year was that? What town in what country?
31. What Caliph ordered the Koran to be compiled? What family was he from?
32. In what novel by whom would you find the characters Lucy Honeychurch and Cecil Vyse?
33. What is a *denouement*?
34. Who are the three Brothers Karamazov? What decade was the book written?
35. What was Tolstoi's real first name? Name a male character in *Anna Karenina*. Who was the tsar at the time of the story? Who was the ruler of England? How were they related?
36. Who said, "It is easier to be gigantic than to be beautiful"?
37. Who said,
 Je t'adore à l'égal de la voûte nocturne,
 O vase de tristesse, ô grande taciturne
38. Who said
 Wie des Mondes Abbild zittert
 In den wilden Meereswogen,
 Und er selber still und sicher
 Wandelt an dem Himmelsbogen:

 Also wandelst du, Geliebte,
 Still und sicher, und es zittert
 Nur dein Abbild mir im Herzen,
 Weil mein eignes Herz erschüttert.
39. Who said
 Ich steh mit einem Fuß im Grabe
40. Who said, "
 It is the blight man was born for,
 It is Margaret you mourn for.

HISTORY

1. What Greek leader during the Peloponnesian War was called by Thucydides the “first citizen of Athens”?
2. Who was the father of Solomon?
3. Marcus Aurelius was a disciple of what ancient philosophy?
4. Marco Polo's hometown was what? He went to China, but what city and who did he meet there? What was Marco's vocation?
5. What Emperor commissioned the building of the Roman Colosseum?
6. What Emperor was the first to be a Christian?
7. Who built the Great Pyramid? When, to the nearest hundred years?
8. Was that before or after the first dynasty in China?
9. Which is older, the *Rig Veda* or the *Iliad*?
10. When did Egypt fall to Muslims permanently?
11. What two empires fought in the battle of Manzikert? Who won? What happened there that has never happened before or since?
12. Name the English and French leaders of the Third Crusade (the two kings). What famous Sultan were they fighting?
13. Which Crusade went disastrously wrong, with the Crusaders sacking major Christian cities? This led to the fall of what Empire?
14. What English duke had Joan of Arc burned? Give both his title and his family name. Who was his grandfather?
15. The Tudors ascended to the English throne after what battle?
16. When did Egypt become part of the Ottoman Empire? Who was the Sultan at that time? Who was his son? [For my readers only: what color was this son's hair?]
17. Moctezuma was the king of what people, in what present day city and country? Was he before Henry VIII or after? Before Dante or after?
18. Where was the Incan Empire? What was its capital? Who defeated it and in what century?
19. Who was the last Native leader to surrender to US forces?
20. What year was Wounded Knee, and in what State? Why was this such a war crime?
21. Which Pope excommunicated Henry VIII? Give both his title and his family name.
22. Which Pope fought with Martin Luther? Give both his title and his family name.
23. What assembly was Luther called before?
24. In the Thirty-Years War, who was the leader of the Imperial side? What was his family name?
25. Who destroyed the Parthenon in 1687 by ordering it to be shelled by mortars? Give his surname, his city, and his position there.
26. Which Pope was Garibaldi's great nemesis?
27. What month and day is Bastille Day?
28. When did England buy South Africa from the Dutch?
29. What year did Mao take over China by founding the PRC?
30. What Treaty followed WWI?
31. When did Spain (permanently) become a republic or democracy?
32. When did England or the UK (permanently) become a republic or democracy?
33. When did Sweden become a republic or democracy?
34. When did Norway become a republic or democracy?
35. When did Canada become a republic or democracy?
36. When did Denmark become a republic or democracy?
37. How were hieroglyphs finally deciphered? Who translated them?
38. When was Venice founded and by whom [The first Doge]. What Byzantine Emperor was he

- connected to, and what was the family name of that Emperor?
39. Malta was ruled until 1798 by what Order of Knights?
40. Are there any places in the British Isles that are not part of the UK or Commonwealth?

ART HISTORY

1. Michelangelo argued with the Pope about the Sistine Chapel ceiling. Which Pope?
2. In which city did Leonardo grow up and learn to paint?
3. What city and country did Rembrandt live in?
4. Where did Monet die?
5. The Louvre opened as a museum in 1793. Where did most of its artworks come from?
6. Where would you now find Gainsborough's *Blue Boy*?
7. In which city would you find Leonardo's *The Last Supper*? What is it painted on?
8. Who is credited by Vasari and Gombrich with perfecting the use of oil paints?
9. What is *chiaroscuro*?
10. Who painted the most famous portrait of George Washington?
11. Who painted the most famous portrait of Charles I?
12. Who painted the most famous portrait of Henry VIII?
13. Who sculpted the famous marble of Voltaire?
14. Where would you find the Elgin marbles?
15. What great illustrator drew these?



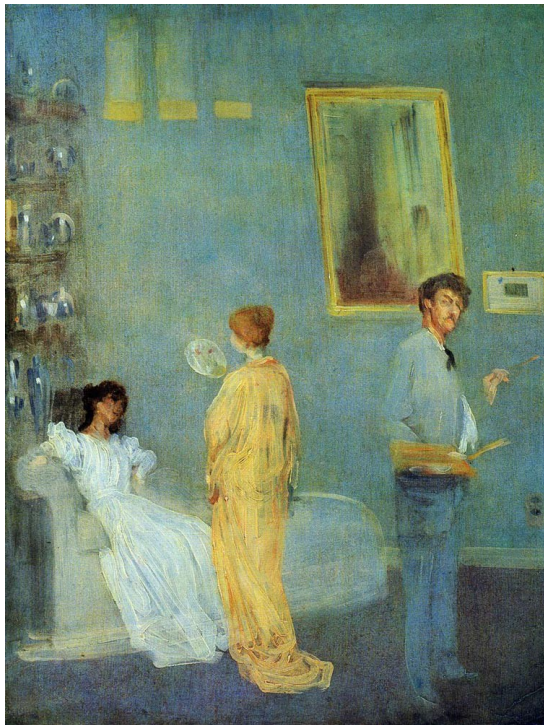
16. What Venetian artist painted these?



17. What sculptor carved these?



18. Who painted these?



19. Who sculpted these?



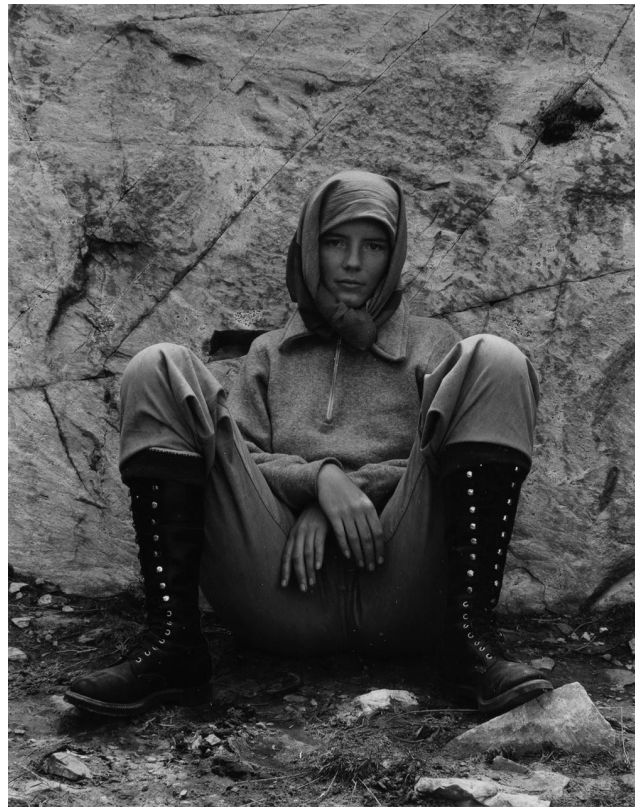
20. Who painted these portraits?



21. Who painted this landscape?



22. Who took these photos?



23. Who sculpted these:



24. Who painted these?



25. Who painted this cityscape?



FAMOUS LOVERS or COUPLES in HISTORY

1. According to Greek mythology, two people survived the Great Flood and repopulated the Earth by throwing bones or rocks over their shoulders. One was Deucalion. Who was the other?
2. Peter Abelard and _____.

3. Beatrice and _____.
4. The famous tale of Pyramus and Thisbe was first told by whom?
5. Who asked for the head of John the Baptist?
6. Who is the wife of Shiva?
7. Who was the partner of Jean Paul Sartre?
8. Who was Praxiteles' favorite model?
9. Who was the husband of Frida Kahlo?
10. Who was the husband of Georgia O'Keefe?
11. Catherine de Medicis was the Queen of which French King?
12. Who did Shah Jahan build the Taj Mahal for?
13. Who was Henry II's fiery Queen?
14. Whom did Edward VIII abdicate for?
15. Who was the wife of Socrates?
16. Who was Henry VIII's second wife?
17. Who was Queen Victoria's husband? What house was he from?
18. Which Queen of England murdered her husband? Where was his 2g-grandmother from? Where was her 3g-grandmother Irene Angelina from? What was Irene's grandmother's real last name?
19. What daughter of the Pope slept with him and her own brother? Where was this family from? Were his parents cousins?
20. Who was the Queen of Edward III? Who was her 4g-grandmother Maria Angelina?

MATHEMATICS/LOGIC

1. Give the Pythagorean Theorem.
2. Name the five perfect solids.
3. $x^2 - 4 = y + 3$. If $x = 8$, $y = \underline{\hspace{1cm}}$.
4. What is 20% of .5?
5. The sine of 40 degrees is .64. If the opposite leg is 1.92, what is the hypotenuse?
6. If a cylindrical glass is 12 inches tall and 6 inches in diameter, what is its volume in cubic inches? Solve to nearest hundredth.
7. What is the probability of heads six times in a row?
8. How many interior degrees does a triangle have?
9. What is the derivative of $3x^2$?
10. Are there more minutes in a month or miles around the Earth?
11. What is $1/32$ divided by $5/16$?
12. What is the value of the fine structure constant?
13. Give the equation for time of flight for a projectile.
14. Give the equation for kinetic energy for a given mass.
15. Give the equation for force, relating it to acceleration.
16. Give the basic equation for distance traveled by an accelerating body.
17. Give the basic equation for pressure.
18. What is the equation for density?
19. Factor the following: $x^2 - 2x - 8 = 0$.
20. Expand the following: $(2x - 7)(x^3 + 9) = 0$.
21. What is a syllogism?
22. What Greek philosopher is known as the father of logic, and also is famous for the idea that "*ex nihilo, nihil fit*"? Who is his most famous student, the inventor of the dialectic?
23. What is a paradox?
24. On a Cartesian graph of motion where t is on the y-axis, a straight line indicates what?

25. What does orthogonal mean?
26. What is flux?
27. State Ohm's Law in variables.
28. What is a parsec? How many ly in a parsec?
29. What is the value of g , the gravity of the Earth?
30. State Boyle's Law in variables and name them.

IMPORTANT DATES in HISTORY

1. When was the First Temple destroyed and by whom? _____, king of _____. When was the Second Temple destroyed? By whom? _____, emperor of _____.
2. Caesar (is said to have) died on the Ides of March. What year?
3. When was the Battle of Marathon?
4. What was year one of France? In other words, when did the first King of the Franks begin his reign?
5. Joan of Arc defeated the English at Orleans in what year? Half credit if you can get the century.
6. When were Louis and Marie Antoinette (allegedly) beheaded?
7. What year did the Tudors (Stanleys) takeover the crown of England?
8. When was Charles I (allegedly) beheaded?
9. The Ming Dynasty began in what year?
10. What year was Lincoln (allegedly) assassinated?
11. What was year one of Russia? In other words, when was the first Rurik King crowned in Novgorod? Who was he and where did he come from?
12. What year did the Romanovs fall?
13. What was year one of Prussia? Who founded it?
14. Rome fell in what year?
15. What was year one of the Hanseatic League? Who were they?
16. When did the Byzantine Empire fall? To whom? What color was his hair? What kind of nose did he have?
17. When was Napoleon defeated at Waterloo? Who won?
18. When was the battle of Hastings? Who won?
19. When did Australia gain independence?
20. Japan was first visited by Europeans in what year?
21. When did Spain become Spain (de facto)? Meaning, when did Castile and Aragon join?
22. What year was radioactivity discovered?
23. What year was the printing press invented? By whom?
24. What year was the steam-car invented and by whom? Hint: it was a toy.
25. In what year was the internal combustion engine invented and by whom? Hint: it used gunpowder.
26. When did Lilienfeld invent the transistor?
27. Who invented the battery? In what year?
28. When was the first English settlement in the US? Where?
29. When was the first Spanish settlement of South America? By whom?
30. When was Hydrogen discovered and by whom?

GEOGRAPHY/GEOLOGY

1. What is the highest mountain outside the Himalayas?

2. What river runs through Paris?
3. Which city is further north? Florence, Italy, or New York?
4. What is the capital of Cambodia?
5. What province of Canada is furthest east?
6. Which is larger, France+Spain or Alaska?
7. Which is larger, Antarctica or the USA+Mexico?
8. What is the world's largest island? What country owns it?
9. What is the old name of Sri Lanka?
10. What is the largest island of Japan?
11. Name the three types of rock.
12. What layer of the Earth is under the crust?
13. Do we know anything for sure about the Earth's Core?
14. Is the Pacific Ocean deeper on average than the highest point in the Rockies?
15. If you were flying out of Los Angeles and wanted to take the shortest route to Calcutta, which direction would you fly?
16. What do you call a large iceflow?
17. Which is more buoyant, freshwater or seawater?
18. When was the last ice age, in thousands of years ago?
19. What is the most abundant element in the crust of the Earth? What is second?
20. What is the mountain range that runs down the length of Italy?
21. What river flows into the sea at Rotterdam?
22. What percentage of the atmosphere is Nitrogen?
23. Name the two lowest levels of the atmosphere. In which do airplanes fly most of the time?
24. What German state is right below Denmark?
25. What river runs through Budapest?
26. What capital city is said to straddle two continents?
27. Name the Capes at the bottom of South America and Africa, in that order.
28. Which is more powerful, the Aurora Borealis, or the Aurora Australis?
29. What is the longest river in Europe?
30. Does Finland share a border with Norway?

PHILOSOPHY

1. What was Confucius' real name? He was a noble of what old dynasty?
2. The life of the Buddha coincides with the conquest of the Indus Valley by what Empire?
3. Did the Buddha write anything?
4. Plato's works are in what form? Who is his main character?
5. Does Plato's *Republic* actually describe a republic? Yes or no.
6. What philosopher divided existence into noumena and phenomena?
7. What 16th century Florentine philosopher taught that "the ends justify the means"? In what work?
8. What French philosopher is famous for doubting everything that had come before him?
9. Name any work by Friedrich Nietzsche.
10. What is a pettifogger? Are all famous philosophers pettifoggers? Are you a pettifogger?
11. What is a Hermeneutic Circle?
12. What was the Vienna Circle? Name one member of it. Who was their great nemesis?
13. Was Schopenhauer an optimist or a pessimist?
14. Spinoza's work comes out the Jewish tradition, especially the work of _____. This person

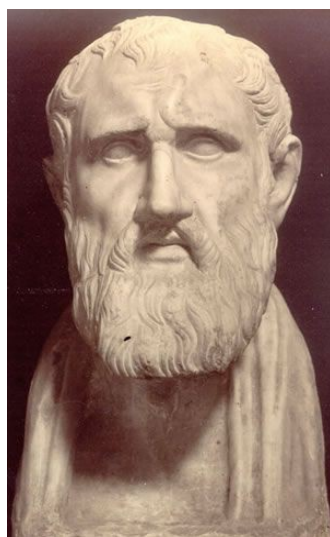
was also known as _____. He was the personal physician of _____.

15. What did Locke and Hobbes disagree about?
16. What French philosopher is sometimes called the father of the American Revolution?
17. Which English philosopher invented utilitarianism?
18. Which American philosopher invented pragmatism?
19. Which French philosopher was the originator of Deconstruction?
20. Who wrote *The Stranger*? What movement was he a part of?
21. What is Pascal's bet?
22. What are the seven liberal arts or trivium/quadrivium?
23. Define "epistemology".
24. Define "teleological".
25. Who said, "Americans may have no identity, but they do have wonderful teeth."
26. Who said, "How can he remember well his ignorance—which his growth requires—who has so often to use his knowledge?"
27. Who said, "I do not believe in the collective wisdom of individual ignorance".
28. What is the difference between induction and deduction?
29. Who said, "[Philosophy consists mostly of kicking up a lot of dust and then complaining that you can't see anything.](#)"
30. Who said, "Do not go where the path may lead, go instead where there is no path and leave a trail."

IDENTIFY THESE PEOPLE









Answers: You can look up all answers online, except for the following.

PHYSICS 7: no to all 17: photons 18: both 27: Leonardo 30: it is hiding the radius of the photon.

ASTRONOMY 8: 95% 12: 25 17: Uranus 18: No, because when it is full it is eclipsed by the Sun.

26: charge alignments among the planets and core. 30. About 9.5 times, see [here](#).

CHEMISTRY 1. Mochus the Phoenician. Leucippus.

BIOLOGY 1: tiger 3: amoeba 5: enzymes 15. [No, and they are toxic to humans](#).

VOCABULARY 1: g

LITERATURE 34: they were close cousins through the Kings of Prussia. Alexander's great-grandfather was a Sachsen through his mother, while Victoria's mother was a Sachsen. Also, their children married. So the idea that Victoria was later a Russophobe is ridiculous.

HISTORY 31-36: never 38: Exarch Paul, Leo III the Isaurian, **Konon**. 40: yes, Isle of Man and City of London.

ART HISTORY 15. Arthur Rackham 16. Titian 17. Bernini 18. James Whistler 19. Auguste Rodin 20. Anthony Van Dyck 21. Corot 22. Edward Weston 23. Praxiteles 24. John Singer Sargent 25. Canaletto

IMPORTANT DATES 13. 1252 by the Teutonic Knights and Konrad I, a Piast, Premyslid and Salian, grandson of **Salomea**. 15:



GEOGRAPHY 13. no

FAMOUS LOVERS 18. Isabella the She Wolf. Savoy. Byzantium. Komnene. 19. The Borgias/Borjas were Spanish Jews. 20. Komnene.

PHILOSOPHY 10: yes and very likely

FAMOUS PEOPLE Virgina Woolf Galileo Descartes Robert Frost Henry VIII James Clerk Maxell
Joan of Arc Newton Charles I Pope Leo X George Washington Marie Curie Jane Austen David
Leonardo Friedrich Nietzsche Metternich Cardinal Richelieu Anne Boleyn Mozart Milton Mary
Queen of Scots Charles Dodgson Louis XIV Parmenides John Jacob Astor Duke of Bedford (John
of Lancaster, killed Joan of Arc) Keppler Montesquieu

You may ask why I don't just provide all answers for your convenience. It is because I want you to look them up. While doing that you may learn something. If it takes weeks or months, so much the better. I learned a lot while compiling this for you, and it will seed several upcoming papers.

