

HIGH SCHOOL SAMPLE SET

1. Which U.S. national park is the oldest located east of the Mississippi River?

ANSWER: Acadia National Park

2. Identify the noble gas, discovered in 1898 from the residue of liquid air, that has an atomic number of 54.

ANSWER: Xenon

3. (Math): The hypotenuse of a 30-60-90 degree triangle is 14 cm long. Find the perimeter of the triangle. Be sure to include the correct units.

ANSWER: $21 + 7\sqrt{3}$ cm

4. With regard to television display, what is the meaning of the acronym “HD”?

ANSWER: High Definition

5. In Jane Austen’s *Pride and Prejudice*, which important family includes five unmarried daughters?

ANSWER: The Bennett family

6. During World War II, his nickname was “Old Blood and Guts”. Who was this famous American General whose film biography won the Academy Award for Best Picture in 1970?

ANSWER: George S. Patton

7. Translate the Spanish word “suerte” (swear tay) into English.

ANSWER: luck

8. Identify the metric equivalent of the U.S. unit of horsepower.

ANSWER: watt

9. Which eleven-letter adjective is used before the word “mark” to refer to any of several notations above or below a letter in word to indicate pronunciation?

ANSWER: diacritical (mark)

10. (Math): Find the limit as x approaches infinity of $1/x$.

ANSWER: 0

11. Identify the Samuel Taylor Coleridge poem that describes a summer palace named Xanadu.

ANSWER: "Kubla Khan"

12. In English grammar, what punctuation is used to indicate a short poetry title?

ANSWER: Quotation Marks

13. Give the name of the biological class that includes the sharks, rays, and skates.

ANSWER: Chondrichthyes

14. Theatrical workers, whether production, construction or administrative are often referred to by what four-letter noun that begins with the letter "g"?

ANSWER: grip

15. (Math): Mean, median, mode, variance, range, and standard deviation are all terms associated with which branch of Mathematics?

ANSWER: Statistics (also accept Probability and/or Statistics)

16. Spell the architectural term "frieze" as it refers to a decorative band along a wall or above a window.

ANSWER: f-r-i-e-z-e

17. Which war was the setting in Earnest Hemingway's *A Farewell to Arms*?

ANSWER: World War I

18. What is the name of the capital city of the African nation of Sudan?

ANSWER: Khartoum

19. Identify the eight-letter verb, beginning with the letter "b", that means to give a gift to someone through one's last will and testament.

ANSWER: bequeath

20. How many times louder is a sound of 40 decibels compared to a sound of 10 decibels?

ANSWER: 1,000

AMERICAN POETS

Directions: I will read the name of a poem by an American author. You identify the poet who created it.

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|---|----------------------------|
| 1. "To a Waterfowl" | 1. William Cullen Bryant |
| 2. "The First Snowfall" | 2. James Russell Lowell |
| 3. "Trees" | 3. Joyce Kilmer |
| 4. "The Song of Hiawatha" | 4. Henry W. Longfellow |
| 5. "Stopping By Woods on a Snowy Evening" | 5. Robert Frost |
| 6. "Annabelle Lee" | 6. Edgar Allen Poe |
| 7. "Snowbound" | 7. John Greenleaf Whittier |
| 8. "I, Too, Sing America" | 8. Langston Hughes |
| 9. "A Girl" | 9. Ezra Pound |
| 10. "There is Another Sky" | 10. Emily Dickinson |

EXTRAS:

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|-----------------------------|--------------------|
| 1. "A Dream Within A Dream" | 1. Edgar Allen Poe |
| 2. "The Road Not Taken" | 2. Robert Frost |

MATHEMATICS – PYTHAGOREAN TRIPLES

Directions: I will provide 2 of the three numbers in a Pythagorean triple, and state whether each value is a leg or the hypotenuse. You provide the missing side length. You need not specify leg or hypotenuse.

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|-------------------------|---------------------|
| 1. leg 3, hypotenuse 5 | 1. (leg) 4 |
| 2. leg 8, leg 15 | 2. (hypotenuse) 17 |
| 3. leg 9, hypotenuse 41 | 3. (leg) 40 |
| 4. leg 9, leg 12 | 4. (hypotenuse) 15 |
| 5. leg 5, hypotenuse 13 | 5. (leg) 12 |
| 6. leg 7, leg 24 | 6. (hypotenuse) 25 |
| 7. leg 10, leg 24 | 7. (hypotenuse) 26 |
| 8. leg 11, leg 60 | 8. (hypotenuse) 61 |
| 9. leg 12, leg 16 | 9. (hypotenuse) 20 |
| 10. leg 20, leg 21 | 10. (hypotenuse) 29 |

EXTRAS:

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|-------------------------|--------------------|
| 1. leg 15, leg 36 | 1. (hypotenuse) 39 |
| 2. leg 6, hypotenuse 10 | 2. (leg) 8 |

SPELLING – ‘D’ WORDS

Directions: Correctly spell each of the following words that begins with the letter “d”.

1. diphthong

1. d-i-p-h-t-h-o-n-g

2. directional

2. d-i-r-e-c-t-i-o-n-a-l

3. diligence

3. d-i-l-i-g-e-n-c-e

4. deficiency

4. d-e-f-i-c-i-e-n-c-y

5. delectable

5. d-e-l-e-c-t-a-b-l-e

6. dissipate

6. d-i-s-s-i-p-a-t-e

7. dormancy

7. d-o-r-m-a-n-c-y

8. deluge

8. d-e-l-u-g-e

9. dysfunctional

9. d-y-s-f-u-n-c-t-i-o-n-a-l

10. drought

10. d-r-o-u-g-h-t

EXTRAS:

1. diffraction

1. d-i-f-f-r-a-c-t-i-o-n

2. debauchery

2. d-e-b-a-u-c-h-e-r-y

21. (Math): If a quadratic equation is graphed and has no x-intercepts, what type of solutions will be found when the equation is solved algebraically?

ANSWER: imaginary (or solutions that have an “i”)

22. In literature, what kind of animal is “Rosinante” as found in *Don Quixote*??

ANSWER: horse

23. Identify the two-word phrase that refers to a person’s salary prior to any deductions for taxes, insurance, and other necessary withholding.

ANSWER: gross pay

24. Spell the word used to refer to a tenth grader in a high school, or a college student who has accumulated at least 30 credit hours.

ANSWER: s-o-p-h-o-m-o-r-e

25. In which U.S. state is the Great Basin desert located?

ANSWER: Nevada

26. Identify the six-letter noun that refers to protection provided to political refugees by a state or country with diplomatic immunity.

ANSWER: asylum

27. (Math): Evaluate $\log_3 (1/27)$. (Read “log base 3 of one twenty-seventh”.)

ANSWER: - 3

28. Give the name of the scientific discipline that studies the origin and development of the universe.

ANSWER: Cosmology

29. The pronouns “this, that, these, and those” are referred to by what name?

ANSWER: demonstrative (pronouns)

30. For more than forty years, this building was the tallest in the world. Identify this famous building, which is still appreciated today for its Art Deco style, and still lays claim to the title of the tallest building in New York City.

ANSWER: Empire State Building

31. (Math): Evaluate the sin (sine) of 810 degrees.

ANSWER: 1

32. In Steinbeck's *The Grapes of Wrath*, which character is the protagonist?

ANSWER: Tom Joad

33. As of August, 2009, who is serving as the United States' Secretary of State?

ANSWER: Hillary Rodham Clinton

34. Identify the pop/country recording artist who hit the charts in 2004 with "Since U Been Gone".

ANSWER: Kelly Clarkson

35. Africa is home to the world's heaviest insect—a beetle that can weigh up to 100 grams. Give the seven-letter name of this beetle who shares its name with a Biblical character.

ANSWER: Goliath

36. Mount Kosciusko is the tallest mountain in which country?

ANSWER: Australia

37. By what common name is the chemical compound C_3H_8 known?

ANSWER: propane (gas)

38. (Math): A line contains the points (2, -1) and (5, 8). Find the slope of a line perpendicular to this line.

ANSWER: $-1/3$ (must say "negative" one third)

39. In the U.S. constitution, what type of powers are held by both the states and the federal government?

ANSWER: concurrent (powers)

40. If you were being treated at Johns Hopkins Teaching Hospital, which U.S. state would you be visiting?

ANSWER: Maryland

EXTRAS:

41. (Math): Solve the following system of equations for x and y:

$$x + y = 9 \quad \text{and} \quad 2x - y = 6$$

$$\text{ANSWER: } x = 5 \quad \text{and} \quad y = 4$$

42. Identify the verb tense used in the following sentence:

She will have been there for four days by Friday.

ANSWER: future perfect

43. Which Greek ancient created *Oedipus at Colonus*, *Antigone* and *Electra*?

ANSWER: Sophocles

44. In addition to blood type, what other aspect of blood chemistry must be identified prior to a transfusion?

ANSWER: Rh (rhesus) factor

45. Give the two-word slang phrase that is often used to refer to someone who flaunts his money, but more appropriately describes an obese feline.

ANSWER: "fat cat"

WARS AND BATTLES

Directions: I will read the name of a famous war battle. You correctly identify the war during which the battle took place.

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|-----------------------------|-------------------------------|
| 1. Battle of the Marne | 1. World War I |
| 2. Antietam | 2. Civil War |
| 3. Battle of Manila | 3. Spanish-American War |
| 4. Tet Offensive | 4. Viet Nam War |
| 5. Battle of Saratoga | 5. American Revolutionary War |
| 6. Battle of Coral Sea | 6. World War II |
| 7. Battle of Horseshoe Bend | 7. War of 1812 |
| 8. Battle of Buena Vista | 8. Mexican-American War |
| 9. Battle at Pea Ridge | 9. Civil War |
| 10. Midway | 10. World War II |

EXTRAS:

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|-----------------------------|---------------------|
| 1. Battle of Ardennes | 1. World War I |
| 2. Battle of Ludford Bridge | 2. War of the Roses |

LITERATURE TITLES

Directions: I will read a partial title of a famous work of literature, along with the name of the author who wrote it. You complete the title.

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| 1. The Velvet _____ by Zilpha Keatley Snyder | 1. Room |
| 2. A High Wind in _____ by Richard Hughes | 2. Jamaica |
| 3. A Light in the _____ by Shel Silverstein | 3. Attic |
| 4. Bleak _____ by Charles Dickens | 4. House |
| 5. A Bell for _____ by John Hersey | 5. Adano |
| 6. The Witch of Blackbird _____ by Elizabeth Speare | 6. Pond |
| 7. All Creatures Great and _____ by James Herriott | 7. Small |
| 8. The _____ Book by Rudyard Kipling | 8. Jungle |
| 9. A Separate _____ by John Knowles | 9. Peace |
| 10. Heart of _____ by Joseph Conrad | 10. Darkness |

EXTRAS:

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|-------------------------------------|-----------------|
| 1. Great _____ by Charles Dickens | 1. Expectations |
| 2. Tortilla _____ by John Steinbeck | 2. Flat |

'CAT' WORDS

Directions: I will read the definition of or give a clue regarding a word that begins with the letters "cat". You identify the word described.

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|---|-------------------|
| 1. Any substance that speeds up a chemical reaction | 1. catalyst |
| 2. A summary of religious doctrine in the form of questions and answers | 2. catechism |
| 3. A complete enumeration of items or a book that contains such a list | 3. catalog |
| 4. A momentous tragic event | 4. catastrophe |
| 5. A cleansing or purification of emotions through talking | 5. catharsis |
| 6. An elongated worm-like larva of a butterfly or moth | 6. caterpillar |
| 7. The negative terminal of an electrolytic cell | 7. cathode |
| 8. A general class to which an item or person belongs | 8. category |
| 9. Clouding of the lens of the eye in humans or animals | 9. cataract |
| 10. Severe mental disorder involving complete withdrawal from reality | 10. catatonia(ic) |

EXTRAS:

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| 1. A great flood, earthquake or violent physical change in the earth | 1. cataclysm |
| 2. Ancient device once used to hurl stones or burning debris in battle | 2. catapult |