



ELEMENTARY EDUCATION: MULTIPLE SUBJECTS

ALL TEST FORMS (5001)

PRACTICE TEST

PRAXIS



ELEMENTARY EDUCATION: MULTIPLE SUBJECTS

READING AND LANGUAGE ARTS (5002)

PRACTICE TEST

PRAXIS

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How to Use This Practice Test

Included in this practice test:

- **Answer Sheet:** To record your answers.
- **Test Document**
- **Grading Sheet:** To grade your answer sheet.

Real Exam:

The PRAXIS Elementary Education: Multiple Subjects Reading and Language Arts Subtest (5002) subtest consists of 80 questions that must be answered within 90 minutes. 10 of the 80 questions are not graded.

This Exam:

This practice test consists of 70 questions. We recommend using a timer to answer the questions within 71 minutes.

Answer Sheet

Number Correct: _____

Total Question: 70

To find your percentage divide the number correct by the total number of questions.

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Date Taken: _____

Score: _____

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| Questions | Corresponding Topic | Subject Area | Total Answer Correct | Total Questions |
|-----------|---------------------|------------------------------------|----------------------|-----------------|
| 1- 18 | Reading | Foundational Skills | | 18 |
| 19-33 | Reading | Literature and Informational Texts | | 14 |
| 34-46 | Writing | Writing | | 13 |
| 47-59 | Writing | Language | | 13 |
| 60-70 | Writing | Speaking and Listening | | 11 |

1. Which of the following would best promote students' knowledge about how printed words represent specific sounds?
 - a. Say several words with the same beginning sound
 - b. Use words with silent ending letters
 - c. Have a calendar posted in the classroom for students to see
 - d. Provide labels for commonly referred to items around the classroom

2. A first grade teacher might design a word wheel where only the beginning letter of the word changes when you spin the wheel. This activity best assesses which of the following?
 - a. Contextual Analysis
 - b. Initial Blends
 - c. Directionality
 - d. Suffixes

3. Mr. Sims is planning a spelling unit using phonetically regular words. He is trying to figure out what the most appropriate unit should be next, once his class learns to identify individual phonemes and to blend onsets and rimes. Which of the following would be the most appropriate unit to teach next?
 - a. Vowel-consonant patterns
 - b. Types of syllables
 - c. Short and long vowels
 - d. Vowel diphthongs

4. Mr. Fischer assigns his students to list ten commonly used words that can either stand alone or be combined with another word to make a new word. Which of the following concepts does this activity best promote?
 - a. Distinguishing root words
 - b. Blending sounds in words
 - c. Making compound words
 - d. Analyzing sound-symbol relationships

5. To best encourage the similarities between spoken and written English, a first grade teacher would implement which of the following activities?
- Show a picture of a coconut and have the students name the location of its origin
 - Show a picture of a black cat with the word "black" written on the picture while writing other descriptive words of the cat on the board as students name these descriptions
 - Read to the class some of the spelling words for the week: "open, giving, again, every"
 - Read a story to the class
6. Which of the following would be the most effective to develop students' reading fluency?
- Repeated readings
 - Choral readings
 - Round robin readings
 - Readers' theater
7. A third grade teacher assigns students into groups of three and instructs them to read a literary excerpt with each member of the group taking turns to read different parts of the section. As the students read to each other, the teacher walks around the room and stops by each group to ask questions to the students. Which type of assessment is the teacher using?
- Informal
 - Formal
 - Diagnostic
 - Standardized
8. A kindergarten teacher prefaces each reading to the class by pointing out the title, author, illustrator and title page. Which skill is this teacher most likely developing with the students?
- Generating questions
 - Phonological awareness
 - Concepts about books
 - Comprehension of texts
9. Some vowel patterns can be associated with more than one pronunciation (for example, book and moon). Which of the following nonsense words has the vowel patterns with the most consistent pronunciation?
- Mook
 - Goan
 - Drow
 - Zough

10. A kindergarten teacher is creating a unit on tigers to focus on the letter "T". Which of the following activities best contributes to the students' understanding of this alphabetic principle?

- a. Cutting out pictures of objects that begin with the letter "T", from an assortment of pictures that only begin with the letter "T", and pasting them into a collage.
- b. Giving students a collection of pictures and having them label the objects that begin with the letter "T"
- c. Brainstorming words that begin with the first letter of the students' names
- d. Creating a rhyme or song that explains how to spell the word "tiger"

11. Most students in Mr. Powers' kindergarten class can identify two or more words that rhyme. Which of the following phonemic skills is most appropriate for the teacher to address next?

- a. Blending the initial consonant sounds in words
- b. Blending the final consonant sounds in words
- c. Naming the beginning sounds in words
- d. Pronouncing all the sounds in words that contain two or three phonemes

12. Which of the following would best allow a teacher to assess a student's graphophonemic knowledge?

- a. Read aloud individual letters to a partner
- b. Circle the vowels in classmates' names
- c. Identify a word based on a sequence of letter-sound correspondence
- d. Write irregular words the student knows in a spelling journal

13. Which of the following words should a teacher use to demonstrate structural analysis for vocabulary development?

- a. Dog
- b. Maintain
- c. Unknown
- d. Develop

14. A kindergarten teacher begins each class by reciting the Pledge of Allegiance. The teacher has a poster with the words to the Pledge of Allegiance and taps each word as the class recites the Pledge. By tapping the word on the poster in correlation with reciting the word, the teacher is best demonstrating which of the following?

- a. Concept of print
- b. Decoding
- c. Phonological awareness
- d. Alphabetic principle

15. How many phonemes are in the word "thought"?

- a. 1
- b. 2
- c. 3
- d. 4

16. While reading aloud in front of the class, the teacher comes across the word "desirable". The teacher then points to clues in the surrounding text that help the student to understand what "desirable" means. Which of the following strategies is the teacher modeling?

- a. Phonemic awareness
- b. Contextual analysis
- c. Structural analysis
- d. Morphemic analysis

17. Mrs. Radcliffe, a first-grade English teacher, wants to support her students' vocabulary development. Which of the following activities would best support her students' vocabulary development?

- a. Have students recite ten vocabulary words from the word wall in the classroom
- b. Introduce new vocabulary words by exposing students to them in several contexts
- c. Have students write the definitions of new vocabulary words in a journal
- d. Have students work in groups to define new vocabulary words by analyzing their root words

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19. A fourth grade teacher wants to enable his students to increase their reading comprehension in science and social studies since they are finding these subject areas very challenging. Therefore, he teaches them some specific strategies to use before, during, and after reading in these content areas. Which of the following would the teacher focus on for this kind of strategy development?

- a. Previewing, phonemic awareness, and literal comprehension
- b. Previewing, self-monitoring, visualizing, and retelling
- c. Phonemic awareness, self-monitoring, and retelling
- d. Independent reading, segmentation, retelling, and self-monitoring

20. A teacher asks an open-ended question in a fifth grade classroom about the literary piece the class just finished reading. The students are required to give their answer with support directly from the text. This is to assess and improve which of the following?

- a. Comprehension
- b. Sequencing
- c. Fluency
- d. Vocabulary

21. A fifth grade teacher wants to ensure that all her students know the elements, or story grammar, of narrative text. Which of the following discussion topics would best promote students' retention of the narrative's elements?

- a. Venn diagrams, charts, and graphs
- b. Newspaper articles, magazines, and dictionaries
- c. Characters, setting, theme, plot, sequence, and solution
- d. Planning, drafting, revising, and editing

22. Mary is reading a book and is making judgments and decisions beyond what is stated in the text of the book. Which of the following methods of comprehension is Mary using?

- a. Inferential
- b. Literal
- c. Vocabulary
- d. Internal

23. Mrs. Harper wants her students to compare and contrast online websites and printed media. Which of the following would best help her achieve this goal?

- a. Read a magazine article in the printed edition and then on the magazine's website
- b. Read a newspaper editorial and then go to the newspaper's website to read comments about the editorial
- c. Review a printed textbook and an online encyclopedia to identify the grade level at which the text is written
- d. Examine the features of a website and a magazine and how the student is able to interact with the information

24. Knowing that English is read from left to right directly impacts which of the following early literacy skills?

- a. Phonemic awareness
- b. Decoding
- c. Letter knowledge
- d. Print awareness

25. Which of the following would be the most appropriate strategy when using below reading level books to increase reading fluency in a student who is struggling with grade level reading fluency?

- a. Provide opportunities for the student to read easy books to a younger student
- b. Have a younger student read easy books aloud to the older, struggling student
- c. Have an older student read easy books to the struggling student
- d. Encourage classmates to correct the struggling student during read aloud sessions

26. Which of the following most contributes to students' vocabulary development?

- a. Independent reading
- b. Explanation of the importance of phonemic awareness
- c. Writing word definitions
- d. Direct instruction of vocabulary words

27. Which of the following quotations best demonstrates an example of internal conflict?

- a. "On the drive home Evelyn was frustrated with herself. Why did she say that to her boss? How could she be so stupid?"
- b. "Mark and Paul disagreed over whether Mark should travel with Paul"
- c. "The storm was great and the men on the ship were scared for their lives"
- d. "The man struggled as he walked through the hot desert"

28. A third grade teacher reads the following passage from a story: "As Jimmy was brushing his teeth before going to bed, he heard a terrible roar come from the garage. Jimmy didn't know what could be making that terrible noise, but he left a light on in the closet while he slept that night." The teacher then asks students questions about their thoughts on the events of the passage and what might be happening. Which of the following would this activity best promote?

- a. Schema development
- b. Mapping
- c. Fact and opinion
- d. Predicting

29. Which of the following statements about media literacy of elementary students is most accurate?

- a. Students need instruction about the various points-of-view of media because they do not naturally learn the differences in media bias
- b. Students are unable to comprehend complex skills in an environment that has a lot of different types of media
- c. Students do not need instruction about the various points-of-view of media because they naturally learn the differences in media bias
- d. In today's technological environment, students are able to quickly discern between helpful and unhelpful media

30. A fifth-grade teacher is going to read a story about two children visiting the aquarium. Which of the following activities is the best way to introduce the text to promote comprehension?

- a. Complete a KWL chart
- b. Listen to the story on audio
- c. Have students write about their own experiences with aquatic animals
- d. Finding the aquarium on a map

31. Having students orally read a book while keeping track of how many words they cannot pronounce is an effective way to assess which of the following?

- a. Independent reading level
- b. Criterion-referenced state test
- c. Summative information
- d. Formative assessment

32. While reading a historical fiction book about The Great Depression, a teacher asks students to scaffold their text-to-self connections between characters in the story. Which of the following literary features is the teacher trying to promote among the students?

- a. Characterization elements
- b. Alliteration and symbolism
- c. Point-of-view
- d. Author's purpose

33. Mrs. King tells her fifth grade students that she is going to explain and model a strategy that should help them learn how to self-monitor their own comprehension development. Which strategy would be most effective for this purpose?
- The teacher starts reading aloud as she is displaying the text on a slide or students are following along in a book; the teacher then pauses and asks a question aloud to herself about what she is reading
 - Students read aloud to a partner an assigned story and then discuss the events
 - Students develop questions about what they have read and exchange them with a partner
 - The teacher models how to develop a text map to determine the main idea
34. Which mode of writing is intended to provide information and includes facts and data?
- Descriptive
 - Narrative
 - Persuasive
 - Expository
35. Which literary device assigns human characteristics to inanimate objects or abstract concepts?
- Imagery
 - Paradox
 - Personification
 - Metonymy
36. A sixth-grade teacher is presenting a unit about propaganda to her students. The teacher shows various propaganda advertisements and asks her students to detect faulty reasoning among the advertisements. Which of the following levels of reading comprehension is primarily being targeted in the lesson?
- Literal
 - Inferential
 - Evaluative
 - Appreciative
37. While previewing a text, a fifth-grade student identifies the words "because", "then", and "therefore". Which of the following comprehension skills is the student primarily using?
- Determining text structures
 - Identifying perspective and bias
 - Identifying text features
 - Recognizing the genre of the text

38. A third-grade teacher wants her students to use academic vocabulary when writing about a recent vacation, trip, or memory. Which of the following types of assignments should the teacher assign to encourage and allow students to use academic vocabulary in their writing assignment?

- a. A poem using rhyming words about the event
- b. A narrative story about the event
- c. An expository essay about the event
- d. A fictional story based upon the event

39. A third-grade class is learning the steps of the writing process. The students are currently writing sentences and paragraphs. Which of the following steps of the writing process have students already completed?

- a. Brainstorming ideas on a topic
- b. Rewriting sentences to correct any grammatical errors
- c. Adding or adjusting words in a sentence
- d. Sharing the final product with classmates and the teacher

40. Mrs. Hamilton is reviewing her students' writing development and observing their present writing skills. Mrs. Hamilton observes the following:

Student 1: The student spells most words as they sound

Student 2: The student writes all letters in lowercase without any spacing

Student 3: The student's marks on the paper resemble a drawing

Student 4: The student writes letters and words but sometimes forgets to properly space the words

Based on the observations above, which of the following students display the most advanced stage in their writing?

- a. Student 1
- b. Student 2
- c. Student 3
- d. Student 4

41. During the revising stage of the writing process, which of the following would be most beneficial for students?

- a. Brainstorming ideas
- b. Using a graphic organizer
- c. Typing their work on a computer
- d. Holding peer conferences

42. A teacher has the students do the following:

Determine a writing audience
Identify a purpose
Provide a list of writing topics

Based on the list of activities, which stage of writing are the students most likely working on?

- a. Prewriting
- b. Editing
- c. Drafting
- d. Publishing

43. A fourth-grade student is finishing the research stage of a research paper. Which of the following strategies will help the student most appropriately organize the research information prior to writing?

- a. Organize each resource used in a story map
- b. Summarize the information from each resource
- c. Identify resources as interesting or not as interesting
- d. Work with other students to identify the best resources to use

44. Which of the following statements about the stages of writing development is most accurate?

- a. Students should learn the writing process without reference to literary instruction so not to confuse themselves
- b. Students learn to write letters before understanding their sounds so they can have meanings
- c. Students should receive no direct instruction regarding the writing process, but should study literature and other students' writings to learn the stages of the writing process
- d. Students learn the writing process in predictable stages, but the rate and mastery of student learning will vary

45. Which of the following is used to provide information about the source of information in a text?

- a. A citation
- b. A hyperlink
- c. A glossary
- d. An afterword

46. Which of the following is the best definition of qualitative evaluation of text complexity?

- a. Qualitative evaluation analyzes the level of meaning, structure, language conventionality, clarity, and knowledge demands of a text
- b. Qualitative evaluation analyzes the readability measures and other scores of text complexity
- c. Qualitative evaluation analyzes the reader variables, such as motivation, knowledge, and experience of a reader
- d. Qualitative evaluation should not be used in analyzing text complexity

47. Which of the following syllable types is the first syllable of the word “excellent”?

- a. A closed syllable
- b. An open syllable
- c. A vowel-consonant-e syllable
- d. A vowel team syllable

48. Which of the following syllable types is the last syllable in the word “rename”?

- a. The r-controlled syllable
- b. A vowel-consonant-e syllable
- c. A closed syllable
- d. A vowel team syllable

49. Read the two sentences below and answer the question:

Sentence 1: The hot pan cooked the potatoes.

Sentence 2: The pan cooked the hot potatoes.

Sentence 1 differs from sentence 2 in that:

- a. The sentences have a different number of objects
- b. The word “hot” describes two different nouns
- c. The verb “cooked” has two different direct objects
- d. The sentences do not differ in meaning

50. Which of the following would be considered the most reliable source for student research?

- a. A scientist’s personal blog
- b. A website forum of industry experts
- c. An educational institution’s website
- d. The first three websites in a search engine query

51. Read the two sentences below and answer the question:

Original Sentence: The player moved the ball to make it go in.

Revised Sentence: The kicker positioned the ball to ensure the kick would be successful.

What aspect of the revised sentence was improved?

- a. Word choice
- b. Sentence fluency
- c. Writing conventions
- d. Organization

52. Read the two sentences below and answer the question:

Original Sentence: Over the hill, after the sunset, Johnny went to Grandma's house.

Revised Sentence: After the sunset, Johnny went over the hill to Grandma's house.

What aspect of the revised sentence was improved in which area?

- a. Word choice
- b. Sentence fluency
- c. Writing conventions
- d. The revised sentence is not an improvement

53. Read the sentence below and answer the question:

Even though the man laughed, he said he did not like the play.

The sentence is an example of which of the following?

- a. Simple sentence
- b. Compound sentence
- c. Complex sentence
- d. Compound-complex sentence

54. Read the following quote from a literary character:

"We could live off the fatta the lan'."

The structure and spelling of this quote most conveys:

- a. The educational background of the character
- b. The desire of the character for food
- c. The desire for dominance and power in the character
- d. The character's disposition towards whom he is talking

55. Read the following sentence:

Bill went to the store, but he did not buy anything.

In the sentence, the word “but” acts as which part of speech?

- a. Adverb
- b. Determiner
- c. Pronoun
- d. Conjunction

56. Read the following excerpt from a poem:

As an apple tree among the trees of the forest so is my beloved among the young men.

With great delight I sat in his shadow, and his fruit was sweet to my taste.

What does the term “apple tree” signify?

- a. The man’s uniqueness and beauty
- b. The man’s similarity to the other young men
- c. The man’s appearance
- d. The man’s location in the city

57. Read the following excerpt from a poem:

As an apple tree among the trees of the forest so is my beloved among the young men. With great delight I sat in his shadow, and his fruit was sweet to my taste.

The last line of the poem uses which type of language?

- a. Literal
- b. Figurative
- c. Exaggeration
- d. Personification

58. A fourth-grade teacher presents students with the vocabulary word “scarce”. Which tier does this vocabulary word fit into?

- a. Tier 1
- b. Tier 2
- c. Tier 3
- d. Tier 4

59. Mary is whom found the token.

Which of the following about this sentence is true?

- a. The word “whom” should be “who”
- b. The sentence is written correctly
- c. The subject and object of the sentence are the same
- d. The word “token” should be plural

60. Students in a fourth grade classroom are having difficulty with their oral language skills. The teacher knows that they must have many opportunities for the development of these skills, which includes listening, speaking, and understanding. Which answer below is NOT a purpose of speaking orally as a part of the process of oral language development?

- a. Giving and/or clarifying information
- b. Making good/appropriate word choices
- c. Giving practice in clear pronunciation
- d. Practicing in schema development

61. When ELL students hear these phrases, "It's raining cats and dogs outside," or "This is just a drop in the bucket," they may be confused as they probably need to have specific instruction in:

- a. semantics.
- b. segmentation.
- c. phonetic strategies.
- d. Scaffolding.

62. It is essential that fourth and fifth grade students have a good knowledge structure about listening, speaking, reading, and writing in order that new skills can be more easily learned. This process is called:

- a. scaffolding.
- b. phonemic awareness.
- c. segmentation.
- d. syntax development.

63. A fourth grade teacher provides ongoing assessment for various listening activities that are going on in her classroom since she clearly understands the importance of effective listening. What are some of the key purposes of effective listening?

- a. Gain new information, understand phonics rules, and solve problems
- b. Communicate more effectively with families and also to solve problems
- c. Gain new information, solve problems, and for the students' own enjoyment
- d. Improve note-taking skills, understand oral language delays, and for the students' own enjoyment

64. Which of the following is the primary benefit of requiring students to give oral book reports?

- a. They provide students with an opportunity to practice making formal presentations in front of a group
- b. They show that students have read the books and understand the plots
- c. They require students to analyze every book they read
- d. They encourage students to share their reading experience with others

65. A third-grade teacher has both native English speakers and English-language-learners in the class. The teacher informally assesses each student for language skills. Which of the following should be selected for further evaluation by the teacher?

- a. A newly enrolled English-language-learner who struggles with conversations with native English speakers
- b. A native English speaker who uses incorrect verb tenses when telling a story
- c. An English-language-learner who best learns new vocabulary through multiple exposures to the word
- d. A native English speaker who cannot clearly communicate ideas in conversations with peers

66. Which of the following statements best reflects the relationship between oral language development and reading comprehension?

- a. Reading comprehension must be developed prior to fluency in oral language being achieved
- b. Reading comprehension is positively affected by promoting oral language
- c. Development of phonological awareness does not impact reading comprehension
- d. A large oral vocabulary has no impact on reading comprehension

67. Which of the following is the most appropriate technique to promote students' development of oral language skills?

- a. Making a collage of patriotic pictures for the classroom wall
- b. Teaching the students about recycling
- c. Creating classroom time for students to talk with their classmates
- d. Having students write out various real-life conversations

68. Students are presenting oral reports on books that they read over the summer. Which of the following would be most appropriate for students to include at the conclusion of their oral presentation?

- a. A summary of the main points
- b. An open-ended question to get the audience's attention
- c. A joke to build rapport with the audience
- d. An outline and explanation of the thesis statement

69. Which of the following sentences best demonstrates active listening?

- a. "I liked the movie because of all the famous actors and action sequences."
- b. "How could you not like the movie?"
- c. "John thinks the movie overlooked the plot in favor of extended action sequences."
- d. "I will write on my blog that the movie was entertaining."

70. When addressing an audience in a large auditorium, a teacher should encourage a student to:

- a. Speak loudly and more slowly than normal
- b. To speak louder and faster than normal
- c. To over articulate and emphasize key points in the presentation
- d. End with a joke so the audience remembers the presentation

Grading Sheet

- | | | |
|--------------|--------------|--------------|
| 1. <u>D</u> | 26. <u>A</u> | 51. <u>A</u> |
| 2. <u>B</u> | 27. <u>A</u> | 52. <u>B</u> |
| 3. <u>C</u> | 28. <u>D</u> | 53. <u>C</u> |
| 4. <u>C</u> | 29. <u>A</u> | 54. <u>A</u> |
| 5. <u>B</u> | 30. <u>A</u> | 55. <u>D</u> |
| 6. <u>A</u> | 31. <u>A</u> | 56. <u>A</u> |
| 7. <u>A</u> | 32. <u>A</u> | 57. <u>B</u> |
| 8. <u>B</u> | 33. <u>A</u> | 58. <u>B</u> |
| 9. <u>B</u> | 34. <u>D</u> | 59. <u>A</u> |
| 10. <u>B</u> | 35. <u>C</u> | 60. <u>D</u> |
| 11. <u>C</u> | 36. <u>C</u> | 61. <u>A</u> |
| 12. <u>C</u> | 37. <u>A</u> | 62. <u>A</u> |
| 13. <u>C</u> | 38. <u>C</u> | 63. <u>C</u> |
| 14. <u>A</u> | 39. <u>A</u> | 64. <u>D</u> |
| 15. <u>C</u> | 40. <u>A</u> | 65. <u>D</u> |
| 16. <u>B</u> | 41. <u>D</u> | 66. <u>B</u> |
| 17. <u>B</u> | 42. <u>A</u> | 67. <u>C</u> |
| 18. <u>C</u> | 43. <u>B</u> | 68. <u>A</u> |
| 19. <u>B</u> | 44. <u>D</u> | 69. <u>C</u> |
| 20. <u>A</u> | 45. <u>A</u> | 70. <u>A</u> |
| 21. <u>C</u> | 46. <u>A</u> | |
| 22. <u>A</u> | 47. <u>A</u> | |
| 23. <u>D</u> | 48. <u>B</u> | |
| 24. <u>D</u> | 49. <u>B</u> | |
| 25. <u>A</u> | 50. <u>C</u> | |

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MATH (5003)

PRACTICE TEST

PRAXIS

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- **Answer Sheet:** To record your answers.
- **Test Document**
- **Grading Sheet:** To grade your answer sheet.

Real Exam:

The Elementary Education: Multiple Subjects Mathematics (5003) subtest consists of 50 questions that must be answered within 65 minutes.

This Exam:

This practice test consists of 50 number of questions. We recommend using a timer to answer the questions within 65 minutes.

Answer Sheet

Number Correct: _____

Total Question: 50

To find your percentage divide the number correct by the total number of questions.

Name: _____

Date Taken: _____

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| Questions | Mathematical Category | Total Answer Correct | Total Questions |
|-----------|---|----------------------|-----------------|
| 1-20 | Numbers and Operations | | 20 |
| 21-35 | Algebraic Thinking | | 15 |
| 36-50 | Geometry, Measurement, Statistics and Probability | | 15 |

1. A runner is running a 10k race. The runner completes 30% of the race in 20 minutes. If the runner continues at the same pace, how long will it take to complete the race?

- a. 67 minutes
- b. 60 minutes
- c. 85 minutes
- d. 62 minutes

2. Simplify: $30 - 2 * 50 + 70$

- a. 0
- b. 570
- c. -210
- d. -70

3. If the number 180 is written as the product of its prime factors in the form a^2b^2c , what is the numerical value of $a + b + c$, where $c = 5$ and a and b do not equal 1?

- a. 10
- b. 16
- c. 17
- d. 22

4. What is the digit in the hundreds place in the product of $63 * 31$?

- a. 1
- b. 9
- c. 5
- d. 3

5. Below is an example of a student's work:

$$\begin{aligned}4/16 - 1/8 &= 3/8 \\10/13 - 3/8 &= 7/5 \\3/5 - 2/3 &= \frac{1}{2}\end{aligned}$$

If the student continues making the same error, the student's most likely answer to the problem $9/16 - 3/4$ would be?

- a. 12/20
- b. 0
- c. 3/5
- d. 6/12

6. Which of the following points on a number line is the greatest distance from .5?

- a. -1.5
- b. 0
- c. 1
- d. 1.5

7. Which of the following requires the most advanced understanding of relationships between arithmetic operations?

- a. $47 + 53 = 50 + 50 = 100$
- b. $53 - 47 + 4 = 57 - 47 = 10$
- c. $(4 * 3) + (4 * 3 - 2) = (12) + (12 - 2) = 22$
- d. $100 - 36 = 64$

8. Tom wants to mentally calculate a twenty percent tip on his bill of \$40. Which of the following is best for Tom to use in the mental calculation of \$40?

- a. $40 * .02$
- b. $40 * (20/100)$
- c. $40 * (200/1000)$
- d. $40 * .1 * 2$

9. Which of the following numbers is neither prime nor composite?

- a. 4
- b. 3
- c. 2
- d. 1

10. All of the following equations, when simplified, equal the same value except one. Which of the following equations, when simplified, is NOT equal to the other equations?

- a. $.25 * 100 - 40$
- b. $200 * (1/8) - 2(40-20)$
- c. $(20 / (1/5)) - (5 / (1/23))$
- d. $2(40 * .2) + 5(.4 * (1/4))$

11. Which of the following is an example of the commutative property of multiplication?

- a. $6 * 5 = 5 * 6$
- b. $123 + 345 = 345 + 123$
- c. $4(2-1) = 2(4-1)$
- d. $2(2+2) = 2(2-2)$

12. A third-grade class begins working on a mathematics project at 9:50 a.m. and stops working on the project at 11:10 a.m. How many minutes did the class work on the project?

- a. 20 minutes
- b. 60 minutes
- c. 80 minutes
- d. 100 minutes

13. What are the prime factors of 18?

- a. $2 * (3^2)$
- b. $2 * 9$
- c. $(2^2) * 3$
- d. $(2^2) * (3^2)$

14. After a lesson on rounding and estimation, a teacher tells students that the football concession stand has purchased 590 candy bars to sell for the 6 football home games this year. The teacher asks the students to estimate the average number of candy bars that will be sold at each home game. Which of the following would be the correct estimation?

- a. 90
- b. 98.3
- c. 100
- d. 105

15. Bill mows lawns during the summer. Each lawn that he mows pays a different amount and requires a different amount of time to mow. Bill records the time it takes to mow each lawn and how much money he is paid:

| | Minutes | \$ Earned |
|--------|---------|-----------|
| Lawn 1 | 20 | 30 |
| Lawn 2 | 30 | 35 |
| Lawn 3 | 35 | 20 |

Using the information above, which of the following equations could be used to find how much Bill earned per minute of work?

- a. $(30 + 35 + 20) / (20 + 30 + 35)$
 - b. $30 + 35 + 20 / 20 + 30 + 35$
 - c. $(30/20) + (35/30) + (20/35)$
 - d. $(30 + 35 + 20) / 3$
16. James has saved \$35.25. He wants to save his money to buy a bicycle that costs \$85.00. His brother's bike cost \$92.00. If sales tax is 8%, about how much more must he save to purchase his bike, including tax?

- a. \$55
- b. \$60
- c. \$50
- d. \$70

17. The teacher provides a word problem for her students:

Quacky Donald's Donuts sells glazed donuts in packages of six and donut holes in packages of 10. If Quacky Donald Donuts sold the same number of glazed donut and donut holes yesterday, what is the minimum amount of donut holes that Quacky Donald's Donuts sold?

Based on the word problem above, which of the following concepts is the teacher most likely to cover in the lesson?

- a. Least common factor
- b. Greatest common factor
- c. Least common multiple
- d. Greatest common multiple

18. Bobby is buying gumballs for 7 of his friends. There are 51 gumballs before Bobby makes his purchase at the store. Bobby wants to give each of his friends the same amount of gumballs and not have any gumballs left. Which of the following approaches can Bobby use to find the greatest number of gumballs he can purchase to give his friends?

- a. Divide 51 by 7
- b. On a piece of paper draw 51 gumballs and then circle groups of 7 gumballs and then count how many gumballs are left not circled
- c. Create a table where one side of the table represents the number of gumballs and the other side represents the number of friends
- d. Make a list of the multiples of 7 and then purchase the highest multiple of 7 that is less than 51

19. Which of the following situations might require the use of a common denominator?

- I Addition of Fractions
- II Multiplication of fractions
- III Subtraction of Fractions

IV Division of fractions

- a. I, II
- b. III, IV
- c. I, III
- d. I, II, III, IV

20. Order the following numbers from greatest to least: -2 , $1/2$, 0.76 , 5 , $\sqrt{2}$, π

- a. $5, \pi, \sqrt{2}, 0.76, -2, 1/2$
- b. $5, \pi, \sqrt{2}, 0.76, 1/2, -2$
- c. $-2, 0.76, 1/2, \sqrt{2}, \pi, 5$
- d. $-2, 1/2, 0.76, \sqrt{2}, \pi, 5$

21. A pancake recipe requires 1 tablespoon of baking powder per 2 cups of flour. If 2 cups of flour make 4 pancakes, how many tablespoons of baking powder are needed to make 12 pancakes?

- a. 1
- b. 3
- c. 6
- d. 9

22. What is the degree of the monomial $3x^2y^3$?

- a. 2
- b. 3
- c. 5
- d. 6

23. What equation describes the linear relationship shown in the table?

| | | | | |
|---|---|----|----|----|
| X | 2 | 6 | 9 | 12 |
| Y | 7 | 19 | 28 | 37 |

- a. $y = 3x + 1$
- b. $y = 2.5x$
- c. $y + 1 = 3x$
- d. $y + 3x = 1$

24. Use the table to answer the question:

| X | Y |
|---|----|
| 1 | -2 |
| 3 | 4 |
| 5 | 10 |
| 9 | 22 |

Which of the following equations correctly models the relationship in the table?

- a. $Y = x - 2$
- b. $Y = 2x$
- c. $Y = 3x + 1$
- d. $Y = 3x - 5$

25. Which of the following is equivalent to the inequality:

$$5 > X - 1$$

- a. $X < 4$
- b. $X > 4$
- c. $X < 6$
- d. $X < 7$

26. Mr. Andrews is in a city whose street grid can be represented by a coordinate plane. Mr. Andrews wants to walk from his current location at a local barbershop, represented on the coordinate plane as $(1, 2)$, to his apartment. Mr. Andrews walks 5 blocks east, or to the right, and 1 block south, or down. Which of the following ordered pairs correctly depicts the location of Mr. Andrews' apartment?

- a. $(6, 1)$
- b. $(2, 7)$
- c. $(0, 7)$
- d. $(6, 0)$

27. Which of the following equations is written in slope-intercept form?

- a. $y = 3x + 5$
- b. $x = 3y + 5$
- c. $3y - 5x = 10$
- d. $y + 5 = 3x$

28. Which of the following correctly combines like terms for the following equation?

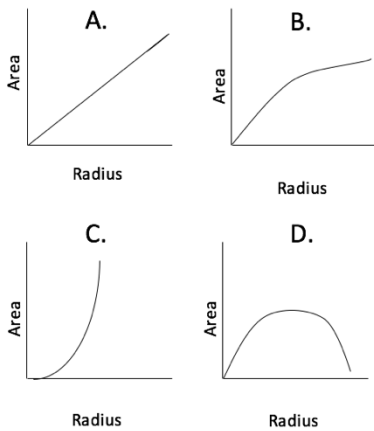
$$3x - 4 + 6x + 5 - 4x - 2 = 16$$

- a. $5x - 1 = 16$
- b. $13x - 11 = 16$
- c. $14x - 10 = 16$
- d. $(3x - 4) + (6x + 5) - (4x + 2) = 16$

29. A school fundraiser is selling candy bars to raise money for a new gymnasium. If Billy sells a total of \$650 worth of candy bars for \$ x per candy bar, which equation would be used to find out how many candy bars Billy sold?

- a. $650 - x$
- b. $650 / x$
- c. $650 * x$
- d. $650 + 3x$

30. Which of the graphs best represents the equation $y = x^2$?



- a. A
- b. B
- c. C
- d. D

31. A small company employs 19 hourly wage workers. The hourly wage range is from \$10 to \$25 per hour. If three workers earn the median wage of \$13.50 per hour, how many workers earn more than \$13.50 per hour?

- a. 6
- b. 8
- c. 9
- d. 11

32. Mrs. McCoy writes two equations on the board for her class.

$$+5 - 5 = 0$$

$$-20 + 20 = 0$$

Which of the following properties of integers is Mrs. McCoy most likely trying to illustrate?

- a. The associative property of addition
- b. The commutative property of addition
- c. The additive inverse property
- d. The additive identify property

33. A student walks into class and tells the teacher that a local candy store had a “buy one candy bar, get one candy bar free” promotion this weekend. The teacher asks the student how many candy bars she purchased, but the student was only able to remember how many candy bars she received. The teacher uses this opportunity to create a word problem for the class. She asks the class to create an equation that would help the student find out how many candy bars a person would receive (r) if for any candy bar they purchased (p), they received one candy bar for free. One student, Sally, says the equation would be $2p + 1 = r$. Which of the following activities would best help Sally recognize the error in her answer?

- Create a model of the equation
- Create a function table
- Graph the equation
- Sally’s equation is the correct equation

34. Mrs. Fields’ science class takes care of a plant at school. The class is responsible for watering the plant and measuring its growth. The students’ measurements are charted in the table.

| Number of Months (m) | Height of the Plant (h) in inches |
|--------------------------|---------------------------------------|
| 1 | 8 |
| 2 | 13 |
| 3 | 18 |
| 4 | 23 |

Which of the following equations relates the height of the plant, h , and the number of months, m , assuming a constant rate of growth?

- $5m + 3 = h$
- $4m = h$
- $8m - 5 = h$
- $3m + 5 = h$

35. Which of the following word problems is the correct question to be written and solved with the given equation?

$$8 - 5 + 3 = 6$$

- a. 8 Birds were sitting on a fence. 5 birds flew away and 3 more birds landed on the fence. How many birds are on the fence now?
- b. 6 children were sitting at a table. 5 got up and left and 3 more sat down. How many children are now at the table?
- c. A dog named Daisy had a litter of 8 puppies, then a litter of 5 puppies. 3 of the puppies were adopted and taken away. How many puppies does Daisy have left?
- d. Molly's Mom made 8 hot dogs for the BBQ. 5 were eaten by Molly's cousins and 3 by Molly's two brothers and Molly. How many hot dogs are left?

36. Students are learning about probability. The teacher explains the theoretical probability of a two-sided coin landing on any one side. Students then work in groups and flip a two-sided coin several times. The first group of students flips the coin 20 times and finds the coin lands on side A 13 times and side B 7 times. Which of the following observations, based on the scenario, about probability is accurate?

- a. The theoretical probability of the coin landing on side B is .5, which is equal to the results of the experiment
- b. The theoretical probability of the coin landing on side A is less than the experimental results recorded
- c. The experimental probability of a coin landing on side A was less than the theoretical probability
- d. The experimental would have produced results closer to the theoretical probability if the number of trials was decreased

37. Tim rolls a pair of dice 25 times and records the sum of the numbers shown. How many different sums are possible?

- a. 10
- b. 11
- c. 12
- d. 36

38. What is the range and mode of the data set below?

10, 8, 5, 3, 7, 4, 5, 9, 2, 3, 7, 3, 8, 6, 4, 1, 2, 1, 10, 3

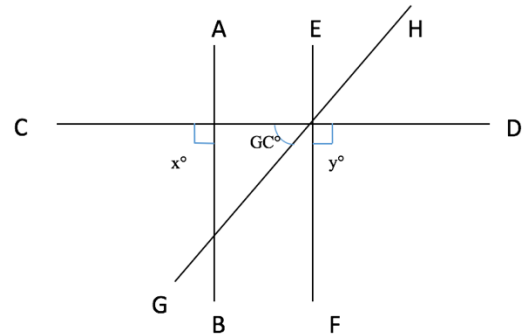
- a. Range: 9; Mode: 3
- b. Range: 10; Mode 3 and 4
- c. Range: 10; Mode: None
- d. Range: 9; Mode 3 and 4

39. Which of the following best describes the polygon above?



- a. A regular pentagon
- b. A convex pentagon
- c. A concave pentagon
- d. A hexagon

40. Based on the figure below, which of the following is true?



- a. $X > 90$
- b. $Y < 90$
- c. Angle CG is $= 120^\circ$
- d. Lines AB and EF are parallel

41. A student is instructed to draw a four-pointed geometric shape on an xy -plane. After the shape is drawn, the student is instructed to add 5 to each x -coordinate and add 3 to each y -coordinate. Which of the following did the student perform?

- a. Rotation
- b. Reflection
- c. Refraction
- d. Translation

42. A teacher presents a right triangle to her class. She says the hypotenuse can be written as $4x + 30$ or $6x + 14$. What is the value of x ?

- a. 6
- b. 8
- c. 10
- d. 12

43. Which of the following is the most appropriate learning progression through the levels of geometric thinking?

- a. Analysis, Abstraction, Deduction
- b. Deduction, Visualization, Abstraction
- c. Abstraction, Analysis, Visualization
- d. Analysis, Deduction, Abstraction

44. Tasha has 8 coins in her pocket. She has a mixture of pennies, nickels, dimes and quarters, but she has no more than 3 of any coin. What is the largest amount of money she could possibly have?

- a. \$1.11
- b. \$1.07
- c. \$1.23
- d. \$1.21

45. Two angles are complementary. If the measure of one of the angles is 68° , what is the measure of the other angle?

- a. 22° , because the sum of the measures of complementary angles is 90° .
- b. 112° , because the sum of the measures of complementary angles is 180° .
- c. 68° because complementary angles are congruent to each other.
- d. 292° because the sum of the measures of complementary angles is 360° .

46. Which of the following geometric objects has five faces, eight edges, and five vertices?

- a. A pentagonal pyramid
- b. A rectangular pyramid
- c. An octagonal prism
- d. A triangular prism

47. A student asks the teacher why the area of a triangle is $\frac{1}{2}bh$? Which of the following would be the most appropriate answer for the teacher to provide to the student?

- a. A parallelogram is the combination of two congruent triangles and the area of a parallelogram is simply bh , so taking one half of the area of a parallelogram yields the area of a triangle
- b. The base of a triangle is usually half its height, so dividing the area by two gives an accurate measurement of the area
- c. You can make a parallelogram a triangle by cutting the parallelogram in half, so dividing the area of a parallelogram by two will yield the area of a triangle
- d. The formula $\frac{1}{2}bh$ applies only to isosceles triangles

48. Which statement about a rectangular prism and a rectangular pyramid is true?

- a. Only the prism has a rectangular base.
- b. Both the prism and the pyramid have rectangular faces.
- c. The rectangular pyramid has one more face than the rectangular prism.
- d. The pyramid has triangular faces.

49. A teacher tells the students the mode of the scores on the most recent exam was 85. Which of the following is the most accurate interpretation of the result?

- a. The most common score on the test is 85 percent
- b. The average score on the test is 85 percent
- c. Half the students scored below 85 percent
- d. The highest score on the test was 85 percent

50. Sally and Susie place 30 white marbles and 9 black marbles in a sack. They play a game where the object of the game is to accumulate more white marbles than the other person. On each turn a person can take as many marbles as they would like, but if they grab a black marble then they must return all their marbles taken on that turn. On Sally's turn she picks up 3 white marbles and no black marbles. If Susie grabs one more marble, what are the odds that she will grab a black marble? (Note: Sally does not return her 3 marbles to the sack)

- a. 1 in 5
- b. 1 in 4
- c. 1 in 3
- d. Not enough information

Grading Sheet

- | | | |
|--------------|--------------|--------------|
| 1. <u>A</u> | 18. <u>D</u> | 35. <u>A</u> |
| 2. <u>A</u> | 19. <u>C</u> | 36. <u>B</u> |
| 3. <u>A</u> | 20. <u>B</u> | 37. <u>B</u> |
| 4. <u>B</u> | 21. <u>B</u> | 38. <u>A</u> |
| 5. <u>D</u> | 22. <u>C</u> | 39. <u>B</u> |
| 6. <u>A</u> | 23. <u>A</u> | 40. <u>D</u> |
| 7. <u>C</u> | 24. <u>D</u> | 41. <u>D</u> |
| 8. <u>D</u> | 25. <u>C</u> | 42. <u>B</u> |
| 9. <u>D</u> | 26. <u>A</u> | 43. <u>A</u> |
| 10. <u>D</u> | 27. <u>A</u> | 44. <u>A</u> |
| 11. <u>A</u> | 28. <u>A</u> | 45. <u>A</u> |
| 12. <u>C</u> | 29. <u>B</u> | 46. <u>B</u> |
| 13. <u>A</u> | 30. <u>C</u> | 47. <u>A</u> |
| 14. <u>C</u> | 31. <u>B</u> | 48. <u>D</u> |
| 15. <u>A</u> | 32. <u>C</u> | 49. <u>A</u> |
| 16. <u>B</u> | 33. <u>B</u> | 50. <u>B</u> |
| 17. <u>D</u> | 34. <u>A</u> | |

| Questions | Mathematical Category | Total Answer Correct | Total Questions |
|-----------|---|----------------------|-----------------|
| 1-20 | Numbers and Operations | | 20 |
| 21-35 | Algebraic Thinking | | 15 |
| 36-50 | Geometry, Measurement, Statistics and Probability | | 15 |



ELEMENTARY EDUCATION: MULTIPLE SUBJECTS

SOCIAL STUDIES: 5004

PRACTICE TEST

PRAXIS

NOTICE

This practice test is offered by 240Tutoring, Inc. It is meant to be a tool for teachers seeking certification in teaching. Please do not distribute this, either for free or commercial use, but link to www.240tutoring.com.

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If you have any questions regarding the use of the practice test, please contact admin@240tutoring.com.

How to Use This Practice Test

Included in this practice test:

- **Answer Sheet:** To record your answers.
- **Test Document**
- **Grading Sheet:** To grade your answer sheet.

Real Exam:

The Elementary Education: Multiple Subjects Social Studies (5004) subtest consists of 55 questions that must be answered within 50 minutes.

This Exam:

This practice test consists of 55 number of questions. We recommend using a timer to answer the questions within 50 minutes.

Answer Sheet

Number Correct: _____

Total Question: 55

To find your percentage divide the number correct by the total number of questions.

Name: _____

Date Taken: _____

Score: _____

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| Questions | Mathematical Category | Total Answer Correct | Total Questions |
|-----------|--|----------------------|-----------------|
| 1-25 | United States History, Government, and Citizenship | | 25 |
| 26-41 | Geography | | 16 |
| 42-55 | World History and Economics | | 14 |

1. Manifest Destiny inspired Americans to migrate westward and settle the land between the Mississippi River and the Pacific Ocean. Which of the following is a major long-term effect of this westward expansion by the United States?
 - a. A peaceful relationship with American Indians
 - b. Increased tensions between the United States and France
 - c. Increased tensions between the United States and Great Britain
 - d. The growth of agriculture and mineral operations in the United States
2. The Sons of Liberty played a major role in protesting which of the following?
 - a. Quartering Act
 - b. Stamp Act
 - c. Townshend Acts
 - d. Tea Act
3. Between 1849 and 1852, nearly 250,000 people migrated to California. Which was the cause of the large migration to California?
 - a. California Gold Rush
 - b. Oil and gas discovery
 - c. Transcontinental railroad
 - d. Free land grants by the Mexican government
4. Which of the following best describes the primary goal of the first French explorers of North America?
 - a. Establish a vibrant fur trade
 - b. Establish a military outpost to combat Spanish dominance of North America
 - c. Convert American Indians to Christianity
 - d. Discover a western sea-route to trade with Asia
5. Which of the following was the primary reason for the growth of national markets in the U.S. during the last half of the 19th century?
 - a. The expansion of the railroad system
 - b. The invention of the steamboat
 - c. The growth of the oil industry
 - d. The urbanization of the workforce

6. Which of the following best describes the primary purpose of the mission, the presidio, and the pueblo in Mexican controlled territories in the 18th and 19th centuries?
- To convert non-Christians to Christianity
 - To promote the security and establishment of trade routes
 - To disseminate western values to American Indians
 - To preserve social order
7. Which of the following aspects of the presidential elections between 1864 and 1876 would be most susceptible to fluctuation?
- The number of candidates possible for election
 - The number of electoral votes in each election
 - The number of years between elections
 - The likelihood of an incumbent being elected
8. Which of the following most significantly disrupted the balance of free states and slave states prior to the Civil War?
- The Mexican-American War
 - The Missouri Compromise
 - The Presidency of Andrew Jackson
 - The Texas Revolution
9. Which of the following is the primary economic reason for the initial exploration of the Americas by European powers in the 15th and 16th centuries?
- Discovering a western sea route to trade with China
 - Finding gold and capturing the natural resources of the Americas
 - Discovering the Fountain of Youth
 - Converting people in the Americas to Christianity
10. Which of the following best describes the concept of Manifest Destiny?
- America was not destined to expand from the Atlantic to the Pacific Ocean
 - God's will for America was to stretch from the Atlantic to the Pacific Ocean
 - Taking land from Native Americans was wrong and Americans should not settle west of the Mississippi River
 - America should expand from coast to coast but in collaboration with other European nations

11. The Columbian Exchange best refers to:

- a. the trade routes established between Europe and Asia that inspired Columbus's expedition.
- b. the trade routes established between Europe and the "New World" discovered by Columbus.
- c. the trade routes established as a result of the Crusade.
- d. a new set of goods demanded in Europe after the Renaissance.

12. Which colony was initially formed as a haven for debtor's?

- a. Georgia
- b. Pennsylvania
- c. Virginia
- d. Rhode Island

13. "It must be the policy of the United States to support free people who are resisting attempted subjugation by armed minorities or outside pressures."

This excerpt best reflects the policy of which United States foreign policy?

- a. Monroe Doctrine
- b. Truman Doctrine
- c. Reagan Doctrine
- d. Obama Doctrine

14. An elementary teacher reads a current newspaper article about how a new state law was just ruled invalid by the state judge. Which of the following concepts could best be taught using the newspaper article as an example?

- a. Popular sovereignty
- b. Natural law
- c. Common law
- d. Checks and balances

15. The Great Compromise during the Constitutional Convention of 1787 resulted in the following:

- a. The importation of African slaves being illegal ten years after ratification of the Constitution
- b. The implementation of Judicial Review
- c. A bilateral legislative body
- d. The President's term of four year periods

16. During the debates leading to the ratification of the Constitution of 1788 many Americans were concerned the Constitution did not explicitly protect the individual's rights and liberties. To address these fears and encourage the ratification of the Constitution, which of the following was ratified:

- a. The Articles of Confederation
- b. The Bill of Rights
- c. Article 1 Section 8
- d. The New Deal

17. Which of the following Supreme Court cases established that the Supreme Court had the power to rule laws passed by Congress unconstitutional?

- a. *Plessy v. Ferguson*
- b. *McCulloch v. Maryland*
- c. *Marbury v. Madison*
- d. *Dred Scott v. Sandford*

18. Which amendment abolished slavery in America?

- a. 1st
- b. 13th
- c. 16th
- d. 17th

19. The First Amendment is:

- a. Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.
- b. A well-regulated Militia, being necessary to the security of a free State, the right of the people to keep and bear Arms, shall not be infringed.
- c. The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.
- d. Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

20. Which of the following statements does the excerpt from George Washington's farewell address address as president best support?

"There is an opinion that parties in free countries are useful checks upon the administration of the government and serve to keep alive the spirit of liberty. This within certain limits is probably true; and in governments of a monarchical cast, patriotism may look with indulgence, if not with favor, upon the spirit of party. But in those of the popular character, in governments purely elective, it is a spirit not to be encouraged. From their natural tendency, it is certain there will always be enough of that spirit for every salutary purpose. And there being constant danger of excess, the effort ought to be by force of public opinion, to mitigate and assuage it. A fire not to be quenched, it demands a uniform vigilance to prevent its bursting into a flame, lest, instead of warming, it should consume."

- a. Citizens should refrain from adding to the national debt
- b. Citizens should limit free speech when it goes against the public's good
- c. The United States should avoid alliances with foreign nations
- d. Citizens should refrain from creating political parties

21. Which of the following is a responsibility of citizenship?

- a. Running for office
- b. Serving in the military
- c. Paying taxes
- d. Voting in elections

22. The legal doctrine known as "separate but equal" was instituted in which of the following cases?

- a. *Plessy v. Ferguson*
- b. *Brown v. Board of Education*
- c. *Marbury v. Madison*
- d. *Mapp v. Ohio*

23. The division of power between the United States Federal government and the states which compose the union of the United States demonstrates the principle of:

- a. checks and balances.
- b. constitutionalism.
- c. federalism.
- d. democracy.

24. What percent of seats in the United States Senate is up for re-election every 2 years?

- a. 33%
- b. 50%
- c. 66%
- d. 100%

25. Which of the following most influenced the development of representative government in the United States?

- a. *The Communist Manifesto* by Karl Marx
- b. *The Rights of Man* by Thomas Paine
- c. *Democracy in America* by Alexis Tocqueville
- d. *Second Treatise of Government* by John Locke

26. Which of the following best describes the impact of the Industrial Revolution on daily life in America?

- a. More newspapers and books were published and encouraged readership.
- b. Public schools taught about the historical events in early America.
- c. Movement of people from rural areas to urban areas, and increases in wages.
- d. An increase in the rise of the super wealthy families and high taxes.

27. The three main physical processes of the water or hydrologic cycle are:

- a. transpiration, perspiration, and sweating.
- b. building dams, creating canals, lowering the aquifers.
- c. evaporation, condensation, and precipitation.
- d. irrigation, desalination, and insolation.

28. Why is Mecca important to the Islamic faith?

- a. It is the largest city in the Muslim world.
- b. It is the headquarters of OPEC.
- c. Is it the birthplace of the prophet Muhammad
- d. The faithful pray each day facing Mecca.

29. Which of the following best describes the primary purpose for the first European settlers settling around the San Francisco Bay area?

- a. The bay was a natural harbor that protected ships inside the bay from turbulent weather and conditions outside the bay
- b. The area was rich in oil deposits
- c. The bay was rich with gold deposits
- d. The bay was far from government oversight so individuals could evade taxes on various economic goods

30. Which of the following is the best insulator of China from Russia?

- a. Himalayas
- b. South China Sea
- c. Gobi Desert
- d. Plateau of Tibet

31. Which natural geographic barrier is a boundary for lands forbidden to colonists in the Proclamation of 1763?

- a. Lake Ontario
- b. Lake Erie
- c. Appalachian Mountains
- d. Spanish lands

32. Which of the following statements best describes the role of oral storytelling among families and cultures around the world?

- a. Stories are the primary means that cultures today interact and represent themselves with one another
- b. Oral traditions communicate cultural values and practices to others
- c. Oral traditions have been marginalized and made unimportant in most cultures due to the rise of new technologies
- d. Oral traditions are mostly used in religious ceremonies to further particular concepts and to discredit concepts presented by other religions

33. Mrs. Anderson wants to teach her students about the geographic concept of a hemisphere. Which of the following tools would be most appropriate for this purpose?

- a. Interviews with local citizens who have lived in different hemispheres
- b. Web-based blogs
- c. Online three-dimensional maps
- d. Global positioning systems

34. California experienced a significant drought from 2012-2015. Many almond farmers began planting crops that required less water to grow. This action is an example of:

- a. adapting to environmental changes.
- b. adjusting to supply and demand.
- c. using nonrenewable resource to improve farming.
- d. changing the environment to meet human needs.

35. Which of the following best describes the predominate characteristic in which the first civilizations in the Fertile Crescent and Asia emerged?

- a. Isolated by water from surrounding civilizations
- b. Isolated by mountain ranges and deserts
- c. River valleys that contained abundant fertile soil and fresh water
- d. Elevated plateaus for agricultural grazing and defense against invasion

36. Which of the following is the best example for showing the direct impact of human activities on the environment?

- a. Mountain lakes resulting from glacier runoff
- b. An oasis in the desert
- c. Destruction of an earthquake on urban environments
- d. Irrigation channels in agricultural communities

37. Which of the following types of maps shows various weather features for a given geographic area?

- a. Meteorological
- b. Political
- c. Topographic
- d. Thematic

38. Which of the following world religions is polytheistic?

- a. Judaism
- b. Christianity
- c. Islam
- d. Hinduism

39. Wayne is introducing a lesson on demography. Which of the following terms would be most appropriate to students during this lesson?

- a. Tectonics
- b. Migration
- c. Democracy
- d. Distance

40. The absolute location of a farm has the most direct effect on which of the following?

- a. State and federal taxation brackets and regulations
- b. Supply and demand of a crop
- c. The type of agriculture produced
- d. The price of the agricultural crop

41. A teacher asks the students to pick an object in the classroom and then describe how far away three other objects are from the first object. The teacher then invites students to present their descriptions to the class. Which of the following learning objectives is this most likely to promote?

- a. Students' understanding of absolute location
- b. Students' understanding of relative location
- c. Students' understanding of data interpretation
- d. Students' understanding of geographic terminology

42. Mr. Johnson is presenting a unit about the polio vaccine. Who of the following is Mr. Johnson most likely to discuss?

- a. George Washington
- b. Jonas Salk
- c. Albert Einstein
- d. Marie Curie

43. Which of the following is the primary result of European colonization of Africa?

- a. An increase in the political rights of minority groups
- b. An influx of migration patterns of Europeans to Africa and Africans to Europe
- c. An increase in violent conflicts based upon ethnicity
- d. The dissemination of European language and beliefs throughout Africa

44. Which of the following is the greatest impact of Alexander the Great's military conquests?

- a. The spread of Hellenistic culture across the known world.
- b. The intermarrying of Greek soldiers with natives throughout his empire.
- c. The unification of military technologies.
- d. The established contact with eastern civilizations.

45. Which of the following best describes the cause of the decline of the Roman Empire?

- a. The prominence of landowners dictating military and economic policy
- b. The growth of Christianity led to religious turmoil throughout the empire
- c. The increase of political instability and use of non-Roman soldiers in the military
- d. Overpopulation of urban centers

46. Which of the following describes how the Crusades led to the Renaissance?

- a. Crusaders brought back wealth from the Holy Lands
- b. Trade with Asia was stimulated by Crusaders bringing back Asian goods
- c. The increased power of the Church
- d. Bringing Jerusalem under Christian rule

47. Mr. Scotts breaks up a dispute among two second grade students. In discussing the situation with the students, Mr. Scotts realizes they were arguing over the use of class resources. This situation could best be used to teach which of the following economic principles?

- a. Scarcity
- b. Opportunity costs
- c. Mercantilism
- d. Free trade

48. A market where a few firms compete against each other is known as:

- a. a monopoly.
- b. an oligopoly.
- c. monopolistic competition.
- d. perfect competition.

49. Mr. Smith begins a project among his fourth grade class. He gives the class \$20 to purchase pencils and has his students sell them to students who have forgotten pencils at home. Which of the following economic principles can Mr. Smith's students learn from this project?

- a. Opportunity cost
- b. Supply and demand
- c. Comparative advantage
- d. Impact of imports and tariffs

50. Three fourth grade students return to their homeroom class after lunch complaining about the cost of soda being fifty cents more at school than at the local gas station. The teacher overhears the conversation and informs the students that the extra fifty cents has been added by the school to cover various costs associated with offering soda to the students. Which of the following economic terms could the teacher associate with the higher cost of soda in the school?

- a. Scarcity
- b. Oligopoly
- c. Tariff
- d. Retaliatory tariff

51. In the fall of 2014 the price of oil fell sharply from an average of over \$100 per barrel to less than \$50 per barrel. Based on the principles of supply and demand, which of the following is most likely true?

- a. The price decline was caused by a decrease in oil production
- b. The price decline was caused by an increased demand for oil
- c. The price decline was caused by an overproduction of oil
- d. The price decline caused an increase in capital investment in oil production

52. A social studies teacher wants to address the social studies theme of time, continuity, and change. Which of the following questions for a fifth-grade elementary class would be most appropriate to address this theme?

- a. Why did the demand for oil increase with the mass production of the automobile?
- b. Why is oil expensive?
- c. What two states have the largest production of oil?
- d. What are the geographic characteristics of the majority of oil fields within the United States?

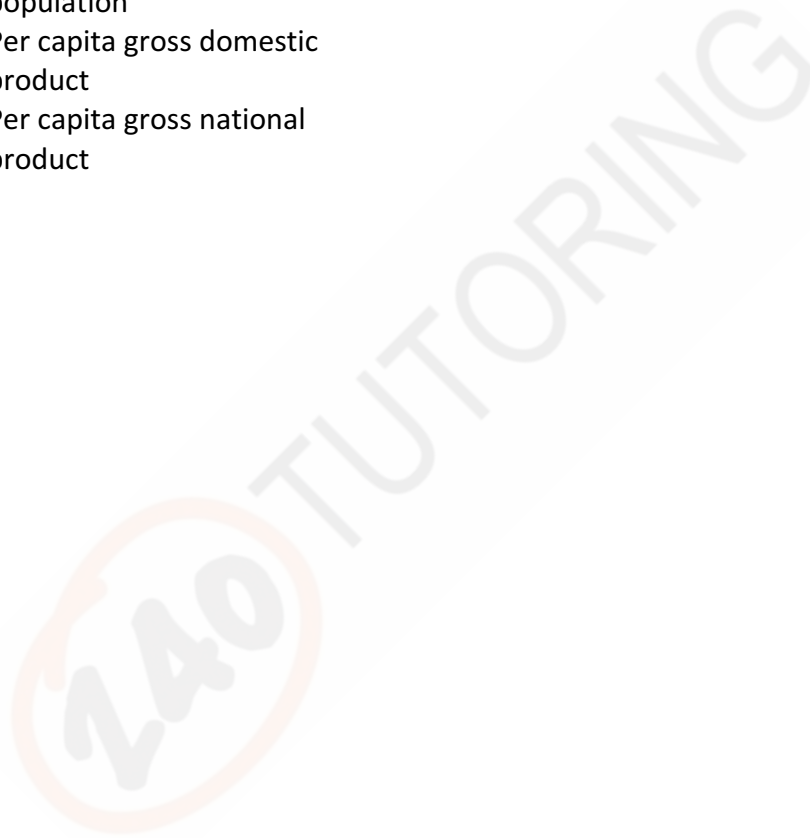
53. Which of the following is the best example of a tariff?

- a. A \$5,000 tax credit for firms researching solar battery cells
- b. A \$50,000 subsidy to corn farmers in Iowa
- c. A 15% tax on year-end investment income
- d. A 20% tax on imported cane sugar

54. A teacher is planning a unit about different types of economies (traditional, command, and market). Which of the following instructional aides would be most beneficial for the teacher to use to help the students understand the difference between the economies?

- a. A diagram illustrating the benefits of each type of economic system
- b. A diagram illustrating the negative aspects of each type of economic system
- c. A line graph showing the historical growth of gross domestic product (GDP) of countries that use the different types of economic systems, where a different color line represents a different kind of economic system
- d. A chart comparing the creation and distribution of goods in each economic system

55. Mrs. Yarbrough wants to demonstrate to her students the difference in the standard of living between citizens of various countries. Which of the following metrics would be most useful to share with the students?
- a. Percentage of government spending v. charitable giving
 - b. The growth rate of a population
 - c. Per capita gross domestic product
 - d. Per capita gross national product



Grading Sheet

- | | | |
|--------------|--------------|--------------|
| 1. <u>D</u> | 20. <u>D</u> | 39. <u>B</u> |
| 2. <u>B</u> | 21. <u>C</u> | 40. <u>C</u> |
| 3. <u>A</u> | 22. <u>A</u> | 41. <u>B</u> |
| 4. <u>D</u> | 23. <u>C</u> | 42. <u>B</u> |
| 5. <u>A</u> | 24. <u>A</u> | 43. <u>C</u> |
| 6. <u>D</u> | 25. <u>D</u> | 44. <u>A</u> |
| 7. <u>B</u> | 26. <u>C</u> | 45. <u>C</u> |
| 8. <u>A</u> | 27. <u>C</u> | 46. <u>B</u> |
| 9. <u>A</u> | 28. <u>C</u> | 47. <u>A</u> |
| 10. <u>B</u> | 29. <u>A</u> | 48. <u>B</u> |
| 11. <u>B</u> | 30. <u>C</u> | 49. <u>B</u> |
| 12. <u>A</u> | 31. <u>C</u> | 50. <u>C</u> |
| 13. <u>B</u> | 32. <u>B</u> | 51. <u>C</u> |
| 14. <u>D</u> | 33. <u>C</u> | 52. <u>A</u> |
| 15. <u>C</u> | 34. <u>A</u> | 53. <u>D</u> |
| 16. <u>B</u> | 35. <u>C</u> | 54. <u>D</u> |
| 17. <u>C</u> | 36. <u>D</u> | 55. <u>C</u> |
| 18. <u>B</u> | 37. <u>A</u> | |
| 19. <u>A</u> | 38. <u>D</u> | |

| Questions | Mathematical Category | Total Answer Correct | Total Questions |
|-----------|--|----------------------|-----------------|
| 1-25 | United States History, Government, and Citizenship | | 25 |
| 26-41 | Geography | | 16 |
| 42-55 | World History and Economics | | 14 |



ELEMENTARY EDUCATION: MULTIPLE SUBJECTS

SCIENCE: 5005

PRACTICE TEST

PRAXIS

NOTICE

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How to Use This Practice Test

Included in this practice test:

- **Answer Sheet:** To record your answers.
- **Test Document**
- **Grading Sheet:** To grade your answer sheet.

Real Exam:

The Elementary Education: Multiple Subjects Science (5005) subtest consists of 50 questions that must be answered within 50 minutes.

This Exam:

This practice test consists of 50 number of questions. We recommend using a timer to answer the questions within 50 minutes.

Answer Sheet

Number Correct: _____

Total Question: 50

To find your percentage divide the number correct by the total number of questions.

Name: _____

Date Taken: _____

Score: _____

1. _____

18. _____

35. _____

2. _____

19. _____

36. _____

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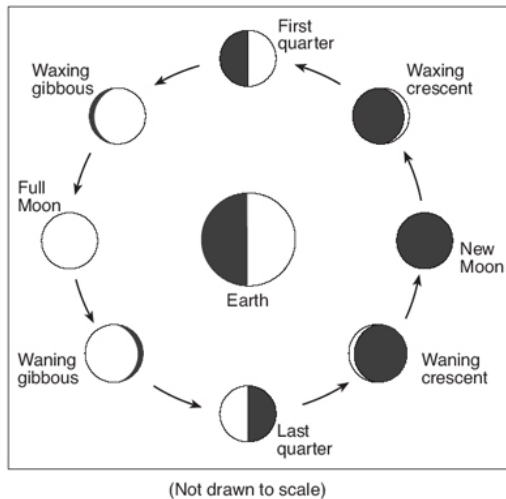
17. _____

34. _____

| Questions | Mathematical Category | Total Answer Correct | Total Questions |
|-----------|-----------------------|----------------------|-----------------|
| 1-16 | Earth Science | | 16 |
| 17-33 | Life Science | | 17 |
| 34-50 | Physical Science | | 17 |

1. Which of the following is the most important rationale for the scientific study of Mars?

- a. Investigating the existence of intelligent life
- b. Understanding the evolution of the solar system
- c. Gaining access to rare or exotic resources
- d. Establishing a colony for humans



2. Using the picture above, which of the following best describes the conditions of a new moon?

- a. A new moon occurs when the Earth is between the sun and the moon
- b. A new moon occurs when the moon is between the sun and the Earth
- c. A new moon occurs once every two lunar cycles
- d. A new moon occurs when half the moon is illuminated by the sun

3. Which of the following would be the most effective strategy to reduce greenhouse gases?

- a. Reducing the use of fossil fuels
- b. Increasing the number of smoke stacks to reduce emission per stack
- c. Adding lime to lakes that are highly acidic
- d. Developing greater irrigation for crops

4. Which of the following activities will help most effectively encourage students to think critically about the role of vegetation in an ecosystem?

- a. Create and maintain a saltwater aquarium
- b. Use a picture of the rainforest to label producers and consumers
- c. Research information about vegetation using the internet
- d. Compare and contrast vegetation characteristics of different geographic areas

5. Which of the following objects best conducts electricity?

- a. Oxygen gas
- b. Pure water
- c. Wood
- d. Copper

6. Which of the following best describes the function of the stomata, the round openings on the surface of plants?

- a. Allows bees and other pollinators to extract pollen and nectar from the plant
- b. Allows gas to enter or exit the flower into the atmosphere
- c. Allows sunlight to enter the cells of leaves
- d. Allows water to be absorbed through the leaves

7. Symbols and numbers on a meteorologist's weather map are best used to show:

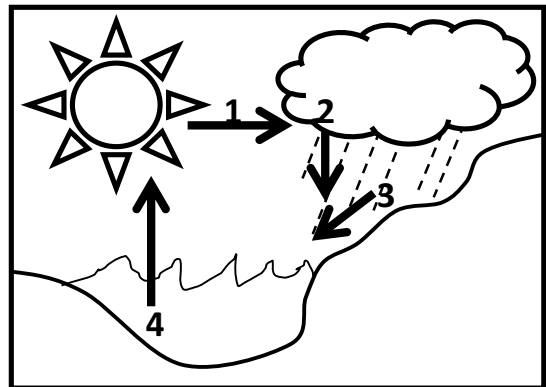
- a. wind speed and direction.
- b. rotation of the earth.
- c. composition of comets.
- d. location of the asteroid belt.

8. Which of the following causes the Coriolis Effect?

- a. The asteroid belt
- b. The rotation of the earth
- c. The gravitational pull
- d. The magnitude of a star

9. Lee Elementary School's PTA volunteered to make outside improvements to the school. A pile of sand and river rock was delivered to the school for the repair of the playground. After a week of rain, the river rock was still piled high, but the sand was no longer in a pile. What could have happened to the sand?

- a. Erosion
- b. Weathering
- c. Evaporation
- d. Sedimentation



10. In the water cycle, energy from the sun heats the water, changing the liquid water into a gas. It loses energy and falls back to Earth. Which step in the water cycle is #4 in the diagram shown?

- a. Evaporation
- b. Condensation
- c. Precipitation
- d. Runoff

11. In which layer of the atmosphere does weather occur?

- a. Troposphere
- b. Stratosphere
- c. Mesosphere
- d. Thermosphere

12. There are three different types of rocks: sedimentary, igneous, and metamorphic. Over time, each of these rock types can be transformed into one of the other rock types. For example, if limestone which is a type of sedimentary rock is exposed to high heat, it can be transformed into marble, which is a metamorphic rock. This process of rocks changing from one form into another form is typically referred to as:

- a. the rock cycle.
- b. the rock transformation.
- c. the rock process.
- d. the rock cementation.

13. The volcanic eruption of Mt. St. Helens deposited a large amount of ash in the atmosphere. Which of the following changes to the Earth's system was reflected in the aftermath of the explosion?

- a. Decreased solar reflection that resulted in higher temperatures in the affected areas
- b. Decreased solar reflection that resulted in lower temperatures in the affected areas
- c. Increased solar reflection that resulted in higher temperatures in the affected areas
- d. Increased solar reflection that resulted in lower temperatures in the affected areas

14. Which of the following mixtures is best separated using a mesh screen?

- a. Oil and water
- b. Sand and pebbles
- c. Salt and pepper
- d. Sugar and water

15. Which of the following statements is verified in the picture above?

- a. A new moon occurs when the moon is between the earth and sun
- b. A new moon occurs when the earth is between the sun and moon
- c. The moon's orbit affects earth's view of the sun
- d. A new moon occurs when the sun passes between the earth and the moon

16. Which of the following best describes a resource that, once used, cannot be replaced or reused?

- a. Nonrenewable
- b. Renewable
- c. Nonliving
- d. Recyclable

17. A bee flies to a flower and gathers the nectar, which the bee will make into food. While the bee gathers the nectar, pollen from the flower covers the body of the bee. When the bee flies to another flower, the pollen rubs off into another plant. This relationship is an example of:

- a. mutualism.
- b. commensalism.
- c. parasitism.
- d. predation.

18. Cattle egrets are birds that live near cattle because as the cattle graze, insects in the ground are stirred up to the surface. When the insects are stirred to the surface, the birds eat the insects and the cattle are unaffected. The relationship between the cattle and the cattle egrets can best be described as:

- a. mutualism.
- b. commensalism.
- c. parasitism.
- d. predation.

19. Which of the following liquids has the lowest pH?

- a. Milk
- b. Household ammonia
- c. Water
- d. Vinegar

20. Oxygen is one of the two most abundant gases in the Earth's atmosphere. Which of these gases, along with oxygen, is the most abundant gas in the atmosphere?

- a. Nitrogen
- b. Carbon Dioxide
- c. Water Vapor
- d. Hydrogen

21. Which of the following is present in plant cells but not in animal cells?

- a. Chloroplast
- b. Mitochondrion
- c. Cytoplasm
- d. Nucleus

22. Which of the following would Darwin describe as the mechanism that allows for evolution?

- a. Underproduction of offspring
- b. Overproduction of offspring
- c. Mutations
- d. Natural selection

23. A bundle of fresh-cut white roses are placed in a container. Water is then poured into the container so that the bottom third of the stems are immersed in water. Then red dye is added to the water. Over the next 24 hours, what is most likely going to happen to the white roses?

- a. They will wilt and die
- b. They will turn a light red color
- c. They will remain white and alive
- d. They will turn completely red

24. A chemical is sprayed in a habitat that drastically reduces the number of producers in the habitat. Which of the following organisms in the food chain will this affect most directly and immediately?

- a. A primary consumer
- b. A secondary consumer
- c. An apex predator
- d. All organisms are affected equally at the same time

25. Which of the following statements about chimpanzees most effectively relates structure to function?

- a. Chimpanzees are mammals
- b. Chimpanzees are related to humans
- c. Chimpanzees have opposable thumbs on all four hands to swing from trees
- d. Chimpanzees are in the Hominidae family

26. Which of the following best describes the primary function of the human skeleton system?

- a. Providing nutrients to the body
- b. Regulating organ function
- c. Regulating body temperature
- d. Supporting the structure of the body

27. Which of the following best describes an example of instinctive behavior?

- a. A dog walks far from a cat to avoid being scratched
- b. A horse runs toward the food trough when he hears a whistle
- c. A baby bird spreads its wings and flaps as she leaves the nest
- d. A newly hatched sea turtle moves toward the ocean

28. Which system controls the function of the body?

- a. Digestive system
- b. Nervous system
- c. Muscle system
- d. Circulatory system

29. To complete the life cycle, dead plants and animals must be broken down to return nutrients to the soil. Which organisms complete this process of the food chain?

- a. Decomposers
- b. Predators
- c. Prey
- d. Producers

30. If P represents the trait for purple flowers and p represents the trait for white flowers, which of the following genotypes would be considered to be a hybrid?

- a. PP
- b. Pp
- c. pp
- d. Both PP and pp

31. Meiosis in multicellular animals results in the production of:

- a. nuclear.
- b. parent.
- c. prokaryotic.
- d. gametes.

32. Which of the following organisms is considered to be a producer?

- a. Long-leaf pine tree
- b. Ladybug beetle
- c. Starfish
- d. Earthworm

33. Which stage of the butterfly life cycle is a major period of reproduction?

- a. Adult
- b. Egg
- c. Larva
- d. Pupa

34. Which of the following energy transformations occurs when wood burns?

- a. Chemical energy into heat energy
- b. Light energy into mechanical energy
- c. Electrical energy into heat energy
- d. Nuclear energy into mechanical energy

35. A teacher is teaching a unit on weather to the class. As a demonstration the teacher heats a beaker on a hot plate and adds blue food coloring to the water. The students observe the movement of coloring in the water. Which of the following processes is best demonstrated by the movement of the food coloring?

- a. Conduction
- b. Convection
- c. Evaporation
- d. Radiation

36. A pendulum swings back and forth in a semicircle pattern. When does the pendulum have its greatest potential energy?

- a. When the pendulum starts to move downward
- b. When the pendulum starts to move upward
- c. When the pendulum is at the top of the arc
- d. When the pendulum is at the bottom of the arc

37. Which of the following steps in making coffee involves a chemical change?

- a. Grinding the coffee beans
- b. Heating the water with a hot plate
- c. The water boiling in the kettle
- d. Boiling water poured through a filter containing the ground coffee beans

38. Which of the following is the best example of refraction of a light wave?

- a. Markings on flowers only being visible while subjected to ultraviolet light
- b. Ink that can only be seen using black lights
- c. Clear ocean water
- d. Glacier lakes appearing turquoise blue

39. Mr. Harris, a second-grade teacher, wants to demonstrate the use of a lever to his students. He begins looking around the school for a piece of equipment to demonstrate the use of a lever. Which of the following would be the best piece of equipment for Mr. Harris to use?

- a. A seesaw
- b. A beaker
- c. A slide
- d. A cafeteria table

40. A teacher places the following items into a container: sand, a sponge, pebbles, rocks, coral, tree bark, and water. The teacher randomly selects a container and has students place their hands in, without looking at the items, to feel the items and guess the names of the items.

The description would best teach which of the following concepts?

- a. Physical changes of matter
- b. Properties of matter
- c. Transfer of energy
- d. Mixing and separating items

41. Which of the following is the best prediction for the outcome when two items of similar shape and volume, but different weights, are dropped from the same height in an environment without air resistance?

- a. The heavier object will hit the ground first
- b. The denser object will hit the ground first
- c. The objects will hit the ground at the same time due to their similar shape
- d. The objects will hit the ground at the same time because gravity is a constant

42. Mr. Montana pushes a refrigerator up a ramp and into his apartment. Mr. Perry purchases the same refrigerator and picks it up to move it into his apartment. Who used more force in moving the refrigerator?

- a. Mr. Montana because the amount of force to push the refrigerator up the ramp must exceed the force of the gravity pulling the refrigerator down the ramp
- b. Mr. Perry because the amount of force required to lift the refrigerator is greater than the lift required to push the refrigerator
- c. Mr. Perry because the amount of force required to walk up the stairs is greater than to walk up a ramp
- d. They used an equal amount of force because both refrigerators are of equal weight

43. Which of the following types of energy is stored in a battery?

- a. Heat
- b. Chemical
- c. Mechanical
- d. Potential

44. Which of the following types of energy do plants convert to chemical energy using photosynthesis?

- a. Potential
- b. Kinetic
- c. Light
- d. Wind

45. Which of the following is a chemical reaction?

- a. Water evaporating
- b. Rust on a metal
- c. Cutting an apple into pieces
- d. Mixing of oil and vinegar in a table dressing

46. Three objects of different sizes and weight are dropped simultaneously in a vacuum which removes all air resistance. Which of the following would be observed in this scenario?

- a. The object with the greatest weight will hit the ground first
- b. The object with the greatest size will hit the ground first
- c. All objects will hit the ground at the same time
- d. Not enough information to predict the outcome

47. Which of the following is the most common reason a chlorine-compound is added to residential and commercial swimming pools?

- a. Control the color of the water
- b. Sanitize the water through an oxidation reaction
- c. Ensure the water is not harmful for a swimmer's eye or skin
- d. Maintain proper drainage and system functions

48. When a panel absorbs energy from the sun to power a yard light, which of the following best describes the transfer of energy?

- a. Solar energy to light energy
- b. Geothermal energy to light energy
- c. Hydroelectric energy to light energy
- d. Nuclear energy to light energy

49. Kim bought some fireworks to shoot off on the 4th of July. She noticed several different powders mixed together in the tube. As the chemicals were ignited, what evidence did she observe that would indicate a chemical reaction had occurred?

- a. A change in color
- b. The chemicals breaking up in the atmosphere
- c. An explosion at different heights
- d. A change in state from a liquid state to a solid

50. Karol placed a small cardboard box of books on a metal rolling cart. On her way to the bookshelf, her dog Nixie ran out in front of the cart, causing Karol to stop suddenly. Although the cart stopped suddenly, the box stayed in place on the cart. What force kept the box of books on the cart when she stopped?

- a. Friction
- b. Magnetism
- c. Air pressure
- d. Buoyancy

Grading Sheet

- | | | |
|------------------|------------------|------------------|
| 1. <u> B </u> | 18. <u> B </u> | 35. <u> B </u> |
| 2. <u> B </u> | 19. <u> D </u> | 36. <u> C </u> |
| 3. <u> A </u> | 20. <u> A </u> | 37. <u> D </u> |
| 4. <u> A </u> | 21. <u> A </u> | 38. <u> D </u> |
| 5. <u> D </u> | 22. <u> D </u> | 39. <u> A </u> |
| 6. <u> B </u> | 23. <u> B </u> | 40. <u> B </u> |
| 7. <u> A </u> | 24. <u> A </u> | 41. <u> D </u> |
| 8. <u> B </u> | 25. <u> C </u> | 42. <u> B </u> |
| 9. <u> A </u> | 26. <u> D </u> | 43. <u> B </u> |
| 10. <u> A </u> | 27. <u> D </u> | 44. <u> C </u> |
| 11. <u> A </u> | 28. <u> B </u> | 45. <u> B </u> |
| 12. <u> A </u> | 29. <u> A </u> | 46. <u> C </u> |
| 13. <u> D </u> | 30. <u> B </u> | 47. <u> B </u> |
| 14. <u> B </u> | 31. <u> D </u> | 48. <u> B </u> |
| 15. <u> A </u> | 32. <u> A </u> | 49. <u> A </u> |
| 16. <u> A </u> | 33. <u> A </u> | 50. <u> A </u> |
| 17. <u> A </u> | 34. <u> A </u> | |

| Questions | Mathematical Category | Total Answer Correct | Total Questions |
|-----------|-----------------------|----------------------|-----------------|
| 1-16 | Earth Science | | 16 |
| 17-33 | Life Science | | 17 |
| 34-50 | Physical Science | | 17 |