

# Practice Test

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## Literacy and English Language Arts

### Multiple choice

1. At what age do children normally demonstrate a speech pattern that is 90% intelligible?
  - a. Two years
  - b. Three years
  - c. Four years
  - d. Five years
2. Which of the following genres is most important for children just beginning to become readers in grades K, 1, and 2?
  - a. Alphabet books, wordless picture books, and easy-to-read books
  - b. Legends and tall tales
  - c. Biographies and informational books
  - d. Chapter books and fantasy books
3. The statement, "He ran as fast as a startled rabbit," is an example of
  - a. Analogy
  - b. Metaphor
  - c. Symbolism
  - d. Repetition
4. Which of the following is NOT a goal of children's literature?
  - a. Focus on choices, morals, and values
  - b. Instruct students through entertaining stories
  - c. Promote an interest in reading itself
  - d. Instruct students in the sciences, such as mathematics and biology
5. Young children are more likely to respond to analogies in stories than to metaphors because
  - a. They are old enough to understand the abstract thinking and symbolism that analogies express
  - b. The ability to understand the kinds of abstraction expressed in metaphors is not developed until later in childhood
  - c. They can apply the concepts expressed in analogies to their own daily lives, but metaphors do not compare things that children are familiar with
  - d. Metaphors and symbols are usually found only in books that children find boring because of their abstractions
6. In which genre does the literature rely on the reader's suspension of disbelief about magical and mythical creatures?
  - a. Science fiction
  - b. Fantasy
  - c. Action and adventure
  - d. Historical fiction

7. Which of the following describes one difference between role-play writing and early writing?
- In role-play writing, the child writes in scribbles that are only meaningful to him or her. In early writing, the child uses real letters
  - In early writing, the child writes in scribbles that are only meaningful to him or her. In role-play writing, the child writes in groups of words with a period at the end
  - In role-play writing, the child writes in simple forms of language, usually the way the word sounds. In early writing, the child starts to use sight words and familiar text
  - In early writing, the child has a sense of audience and a purpose for writing. In role-play writing, the child writes from the point of view of an imaginary character
8. A story about a young detective who solves mysteries using mental and physical skills would be classified as
- Action and adventure
  - Historical fiction
  - Horror and ghost stories
  - Biography
9. If a child appears delayed in speech development, which of the following is the best course to follow?
- Take a wait-and-see approach, as there are wide variations in patterns of speech development
  - Use in-depth evaluations and early intervention to assist the child with language delays
  - Help the child with common developmental speech problems, such as saying "w" for "r"
  - Have the child repeat common words and phrases after an adult pronounces them
10. One of the most important elements in children's literature that captures children's interest is
- Character
  - Accuracy
  - Information
  - Vocabulary
11. How should the teacher best deal with an academically talented student who typically finishes work ahead of other students and tends to get into mischief while waiting for others to finish?
- Reprimand the student and remind him or her that his talents require setting a good example.
  - Assign the student an appealing task related to the subject area that requires creativity, research, and/or in-depth study of the subject, such as creating a play or making a collage
  - Permit the early finisher to have additional play time or extended recess as a reward for rapid completion of assignments
  - Have the student tutor or help those who are not finished because they are having difficulty with the assignment
12. Which of the following genres takes an opinion and defends it?
- Essays
  - Biographies
  - Memoirs
  - Informational texts

13. Which of the following is a developmental skill a child should have before beginning to write?
- Large muscle control
  - Ability to speak coherently
  - Small muscle control
  - Ability to hold a pencil correctly
14. The final resolution of a fictional plot is called
- Exposition
  - Rising Action
  - Falling Action
  - Denouement
15. When should students be taught to activate their prior knowledge?
- Before reading
  - During reading
  - After reading
  - All of the above
16. Activity settings (Tharp and Gallimore, 1988) are aspects of the sociocultural context that affect how students learn and read. Of five activity settings, one is participant identity, or who the students are. Of the other four, which is most related to motivation?
- When the activity is done
  - Why the activity is done
  - Where the activity is done
  - How the activity is done
17. In reading instruction, the Three Cueing Systems is one model used. Which of the following represent a valid reading strategy that is NOT a system in the Three Cueing Systems model?
- Syntactic cues
  - Pragmatic cues
  - Semantic cues
  - Phonological cues
18. The English word "salary" has a 2,000-year-old etymology to a word meaning...
- Salt.
  - Celery.
  - Money.
  - Earnings.
19. Which of the following is NOT a prewriting strategy?
- Brainstorming
  - Visual mapping of ideas
  - Asking questions
  - Organizing writing into paragraphs

20. Maria's topic sentence is "My family prepares for holidays in a big way." Which of the following would be the best supporting detail to follow that sentence?
- Holidays are just a waste of everyone's time and money
  - First, we decide who is going to host the holiday dinner
  - In my family are me, my brother, my sister, and our parents
  - Afterwards we all help clean up and then relax
21. We are familiar with the modern English meanings of the word "disaster." But in the 16<sup>th</sup> century, this word meant...
- Catastrophe.
  - Star-crossed.
  - A misfortune.
  - Unflowerlike.
22. Students should learn to write for a variety of audiences because
- Writing everything just for the teacher is boring
  - Their classmates are also a potential audience
  - Students are more involved in their writing if the audience varies
  - Students can make political statements with letters to the editor
23. Which of the following would you expect children in grades k-2 to learn by being exposed to both fictional and nonfictional literature?
- How to tell fiction from nonfiction
  - How to do research to find information
  - How to tell if a nonfiction writer is writing from a biased viewpoint
  - How to understand themes, theories, and settings
24. A patient dies in surgery and the reporting doctor describes the death as a "negative patient outcome." This is *best* identified as an example of...
- Jargon.
  - Ambiguity.
  - Euphemism.
  - Connotation.
25. Which of the following should not be capitalized?
- State names
  - Small words like "of" in titles
  - Proper names
  - Main words in titles of written work

26. Elena wrote the following paragraph:

I believe that everyone should try to care for our planet. The best ways to do this are through recycling and using natural energy instead of fossil fuels. The supply of fossil fuels such as oil and coal will be used up some day, so we should try now to use less. Solar panels can reduce the use of fossil fuels. Windmills can be used to make electricity. Hybrid cars also use less fuel. If we do not try to be "green," our planet will soon be in trouble from global warming and the absence of fossil fuels. What kind of world would that be?

The purpose of Elena's paragraph was

- a. Narration
  - b. Entertainment
  - c. Persuasion
  - d. Description
27. Which of the following is an example of a portmanteau?
- a. Fax
  - b. Brunch
  - c. Babysitter
  - d. Saxophone
28. Which of the following is not a method of peer editing?
- a. Pairs of students analyze each others' sentences for variety
  - b. Groups of students ask questions of the author to make the writing more clear
  - c. Students work together to perform a final edit
  - d. Students decide whether another student's essay is good writing or poor writing
29. What is the best way for a teacher to make sure that books in the classroom are at an appropriate reading level, neither too easy nor so difficult that beginning readers will become frustrated?
- a. Administer a reading pretest to the class before selecting suitable books
  - b. Purchase books that are easy enough for even the most beginning of readers
  - c. Make sure that all the books are just slightly above students' reading level, so they will grow
  - d. Provide a wide variety of reading materials for children to choose from
30. Assonance means that two or more words
- a. Start with the same sound
  - b. End with the same sound
  - c. Have the same vowel sound
  - d. Sound like an item they portray
31. Of the following sentences, which one appeals to emotion?
- a. It is dangerous to use a cell phone while driving because you steer one-handed.
  - b. Statistics of accident risk show that cell-phone use while driving is dangerous.
  - c. It is really stupid to use a cell phone when you drive because it is so dangerous.
  - d. Many state laws ban cell-phone use when driving due to data on more accidents.

32. The adaptation of language in a piece of writing to meet the author's purpose or audience is called
- Theme
  - Point of view
  - Style
  - Voice
33. The English language word "quark" is an example of the result of which linguistic process?
- Blending
  - Conversion
  - Neologisms
  - Onomatopoeia
34. The perspective from which a story is told is called
- Theme
  - Point of view
  - Style
  - Voice
35. A distinguishing feature of the form known as haiku is...
- 5/7/5 syllables per line
  - An ABA rhyme scheme
  - Perfectly regular meter
  - Lengthy epic narratives
36. In Mr. Booker's first grade classroom, students are studying marine animals in science. Mr. Booker wants to select a book to read to the class that will enhance their understanding of this subject while at the same time capturing their interest in a story. Which of the following would be the best choice?
- The Wild Whale Watch*, part of the Magic School bus series, a chapter book about whales
  - The Whale Watchers Guide*, a book designed to help plan a whale-watching trip
  - Moby Dick*, a famous 19<sup>th</sup> century novel about a man and a white whale
  - The Pacific Ocean*, a book describing the ocean floor, tides, wave formation, and currents
37. When students compare nonfiction literature to fictional literature, what differences will they find?
- Nonfiction stories will be told in logical order and will relate only the facts, while fictional stories are never told in logical order
  - Fictional stories deal with plot, characters, setting, and themes, and nonfiction does not
  - In addition to plot, character, setting, and theme, a nonfiction work will also introduce interpretations, theory, and research
  - Students will find few, if any, differences between these two types of literature because they are essentially the same
38. A child using the prewriting strategy called "free writing" will
- Make a list of all ideas connected with the chosen topic
  - Create a visual map on paper to connect ideas
  - Ask the questions "Who?," "What?," "When?," and "Where?"
  - Write thoughts and ideas without stopping to edit them

39. In selecting literature for children, the most important first step a teacher should perform is to evaluate
- Whether the characters are interesting
  - Whether the plots are appealing
  - Class composition and preferences
  - The reading level of the material
40. The basics of writing to a particular audience do NOT include
- Precise vocabulary
  - Correct facts
  - Figurative language
  - Illustrations or examples

### **Constructed response**

#### 400-600 word response

In this constructed response activity, you will be presented with a sample of a student's response to an assignment. You must respond by identifying a student's noteworthy strengths and their weaknesses, presenting evidence of each. Then, you must describe how you would provide an instructional intervention which builds from the student's strength to address the student's needs. Then explain how your intervention will be effective in meeting the student's needs. Your response should be between 400 and 600 words.

#### Exhibit 1: Lesson goal

Mrs. Harris, a 2nd-grade teacher is assessing Charlie's reading comprehension of a story that he reads fluently and accurately by having Charlie retell the story in his own words. The goal of this activity is to assess and improve on reading comprehension and paraphrasing ability.

#### Exhibit 2: Reading material

*Bobby is at the park. He plays a new game. A boy tells him how to play the game. First, Bobby has to run as fast as she can. He likes to run. When he runs fast, he feels like he is flying.*

*Next, the boy says, "Red light!" Bobby has to stop. He must stand very still. Then the boy says, "Green light!" Now, Bobby can run again. He runs fast. Bobby likes the new game. He wants to play it with his friend Jimmy at school.*

#### Exhibit 3: Conversation transcript

Teacher: Can you tell me what you were reading about?

Charlie: It's a story about some boys. One boy is named Bobby. He doesn't know how to cross the street.

Teacher: How do you know that Bobby needs to learn about crossing the street?

Charlie: Because he doesn't even know about red lights and green lights. How red is for stop and green is for go. I think he's a little kid.

Teacher: What happens to Bobby in this story?

Charlie: This other boy bosses him around. Bobby wants to pretend he is flying. The other boy makes him stop. He yells, "Red light!" and then Bobby stops. I think the other boy tells him about the street when the cars stop. So, he learns about it.

Teacher: What else do you think Bobby will do?

Charlie: Maybe he'll tell the boy to stop bossing him around.

Response

Provide a response between 400 and 600 words on a separate piece of paper.

## Mathematics

### Multiple Choice

1. What linear equation includes the data in the table below?

$X$	$Y$
-3	1
1	-11
3	-17
5	-23
9	-35

- a.  $y = -3x - 11$   
b.  $y = -6x - 8$   
c.  $y = -3x - 8$   
d.  $y = -12x - 11$
2. Geometric figures can be classified by  
a. The number of sides  
b. The angles where sides meet  
c. Whether they are polygons or solids  
d. All of the above
3. A dress is marked down by 20% and placed on a clearance rack, on which is posted a sign reading, "Take an extra 25% off already reduced merchandise." What fraction of the original price is the final sales price of the dress?  
a.  $\frac{9}{20}$   
b.  $\frac{11}{20}$   
c.  $\frac{2}{5}$   
d.  $\frac{3}{5}$
4. Mrs. Vories, a fifth grade teacher, asks her class to use compatible numbers to help her determine approximately how many chicken nuggets she needs to buy for a school-wide party. The school has 589 students and each student will be served nine nuggets. Which student correctly applied the concept of compatible numbers?  
a. Madison estimates:  $500 \times 10 = 5,000$  nuggets  
b. Audrey estimates:  $600 \times 5 = 3,000$  nuggets  
c. Ian estimates:  $600 \times 10 = 6,000$  nuggets  
d. Andrew estimates:  $500 \times 5 = 2,500$  nuggets
5. A number system in which the position of a digit in a number determines its value is called a  
a. Relationship system  
b. Place value system  
c. Regrouping system  
d. Tens and hundreds system

6. For three days, Mr. Hanson had his students keep track of how many times each of them used a pencil during the school day. What is the best kind of graph to use to display these data?

- a. Bar graph
- b. Circle graph
- c. Pictograph
- d. Line graph

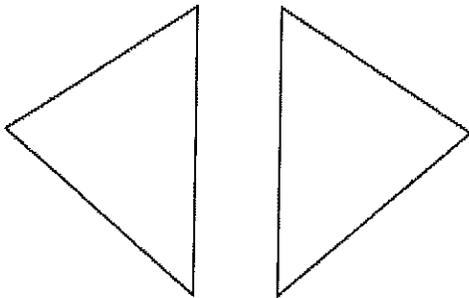
7. Paper strips and Cuisenaire rods are manipulatives used to teach

- a. Place value
- b. Fractions
- c. Addition of whole numbers
- d. Percents

8. Which of the following is the correct solution for  $x$  in the system of equations  $x - 1 = y$  and  $y + 3 = 7$ ?

- a.  $x = 6$
- b.  $x = 5$
- c.  $x = 4$
- d.  $x = 8$

9. John drew two triangles on a piece of paper, like this:



They were facing away from each other, but had the exact same size and shape. This is best described as an example of which geometrical concept?

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

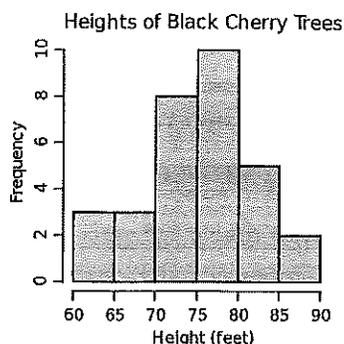
10. The table below shows the average amount of rainfall Houston receives during the summer and autumn months.

Month	Amount of Rainfall (in inches)
June	5.35
July	3.18
August	3.83
September	4.33
October	4.5
November	4.19

What percentage of rainfall received during this timeframe, is received during the month of October?

- a. 13.5%
  - b. 15.1%
  - c. 16.9%
  - d. 17.7%
11. Amy saves \$450 every 3 months. How much does she save after 3 years?
- a. \$4,800
  - b. \$5,200
  - c. \$5,400
  - d. \$5,800
12. A decimal can be converted to a percent by
- a. Moving the decimal point two places to the right
  - b. Dividing by 100
  - c. Doubling the number
  - d. Moving the decimal point one place to the left

13. The 6<sup>th</sup> grade teachers at Washington Elementary School are doing a collaborative unit on cherry trees. Miss Wilson's math classes are making histograms summarizing the heights of black cherry trees located at a local fruit orchard. How many of the trees at this local orchard are 73 feet tall?



- a. 8
  - b. That information cannot be obtained from this graph.
  - c. 9
  - d. 17
14. A third-grade teacher decides to introduce new vocabulary words using a word association game. What is required in order for the students to succeed with word associations?
- a. The definition of the new words.
  - b. Prior knowledge.
  - c. The spelling of the word.
  - d. Synonyms of the new words.
15. Which of the following is an example of an ordinal number?
- a. 13
  - b. One-half
  - c. Second
  - d. Ten
16. Which of the following formulas may be used to represent the sequence 8, 13, 18, 23, 28, ...?
- a.  $a_n = 5n + 3$
  - b.  $a_n = n + 5$
  - c.  $a_n = n + 8$
  - d.  $a_n = 5n + 8$
17. When deciding to measure the sides of a two-dimensional object, what attributes of that object should be considered?
- a. Volume and liquid measurement
  - b. Length and width
  - c. Weight and mass
  - d. Perimeter and area

18. The ratio of employee wages and benefits to all other operational costs of a business is 2:3. If a business's total operating expenses are \$130,000 per month, how much money does the company spend on employee wages and benefits?

- a. \$43,333.33
- b. \$86,666.67
- c. \$52,000.00
- d. \$78,000.00

19. Given that  $x$  is a prime number and that the greatest common factor of  $x$  and  $y$  is greater than 1, compare the two quantities.

Quantity A

$y$

Quantity B

the least common multiple of  $x$  and  $y$

- a. Quantity A is greater.
- b. Quantity B is greater.
- c. The two quantities are the same.
- d. The relationship cannot be determined from the given information.

20. By rewriting 5 times 9 as  $9 + 9 + 9 + 9 + 9$ , students will learn

- a. The commutative property of numbers
- b. The relationship between multiplication and addition
- c. The relationship between addition and division
- d. The associative property of numbers

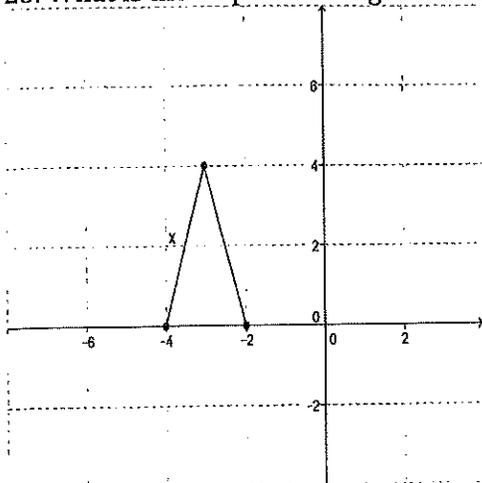
21. A 6<sup>th</sup> grade math teacher is introducing the concept of positive and negative numbers to a group of students. Which of the following models would be the most effective when introducing this concept?

- a. Fraction strips
- b. Venn diagrams
- c. Shaded regions
- d. Number lines

22. A missing object problem like the one below is one way of helping students learn what concept?  
Truck car bike train truck car bike \_\_\_\_\_ truck car bike train

- a. Counting
- b. Problem solving
- c. Manipulation of objects
- d. Basic addition

23. What is the slope of the leg marked  $x$  in the triangle graphed below?



- a. 2
- b. 3.5
- c. 4
- d. 4.5

24. What is the educational purpose of having students measure the length of an object, such as their desk or table, with non-standard measuring units smaller than the object, such as crayons?

- a. Measuring with small units is easier for young children
- b. Children cannot read the markings on a standard ruler or yard stick
- c. Students learn to measure something larger than a unit with repetitive use of that unit
- d. Students will later be able to transfer measurements from meters to yards

25. The property of numbers that states that  $1 + 3$  is the same as  $3 + 1$  is called

- a. Associative
- b. Distributive
- c. Inverse
- d. Commutative

26. Tom needs to buy ink cartridges and printer paper. Each ink cartridge costs \$30. Each ream of paper costs \$5. He has \$100 to spend. Which of the following inequalities may be used to find the combinations of ink cartridges and printer paper that he may purchase?

- a.  $30c + 5p \leq 100$
- b.  $30c + 5p < 100$
- c.  $30c + 5p > 100$
- d.  $30c + 5p \geq 100$

27. Solve  $\frac{x-2}{x-1} = \frac{x-1}{x+1} + \frac{2}{x-1}$ .

- a.  $x = 2$
- b.  $x = -5$
- c.  $x = 1$
- d. No solution

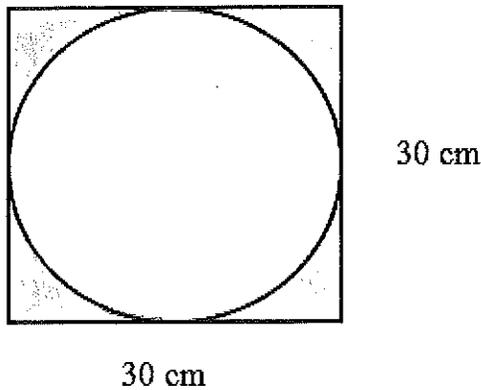
28. Elementary teachers in one school surveyed their students and discovered that 15% of their students have iPhones. Which of the following correctly states 15% in fraction, decimal, and ratio equivalents?

- a.  $\frac{3}{20}$ , 0.15, 3:20
- b.  $\frac{3}{25}$ , 0.15, 3:25
- c.  $\frac{15}{10}$ , 1.5%, 15:10
- d.  $\frac{2}{1}$ , 1.5%, 2:1

29. Hannah spends at least \$16 on 4 packages of coffee. Which of the following inequalities represents the possible costs?

- a.  $16 \geq 4p$
- b.  $16 < 4p$
- c.  $16 > 4p$
- d.  $16 \leq 4p$

30. What is the area of the shaded region in the figure shown below?



- a.  $177 \text{ cm}^2$
- b.  $181 \text{ cm}^2$
- c.  $187 \text{ cm}^2$
- d.  $193 \text{ cm}^2$

31. Given this stem and leaf plot, what are the mean and median?

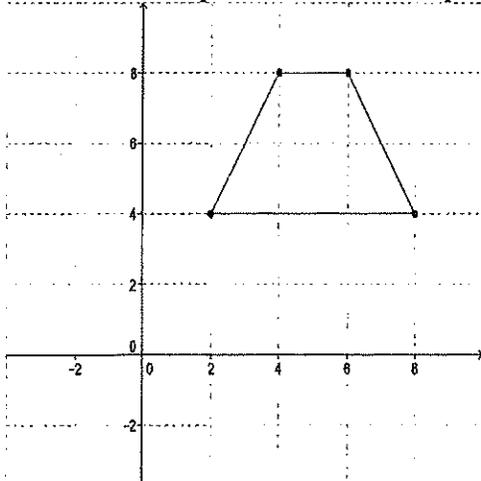
Stem	Leaf
1	6 8
2	0 1
3	4
4	5 9

- a. Mean = 28 and median = 20
- b. Mean = 29 and median = 20
- c. Mean = 29 and median = 21
- d. Mean = 28 and median = 21

32. Katrina wanted to solve this math problem: "If there are 30 days in a month and today is the 12<sup>th</sup>, how many days until the end of the month?" What should be her first problem-solving step?
- Devise a plan for solving the problem
  - Carry out the plan she created
  - Look back to check that her answer is correct
  - Understand what the problem is asking

33. Which of the following is NOT a model that helps students understand subtraction?
- Take away
  - Missing addend
  - Number line
  - Adding zero

34. What is the perimeter of the trapezoid graphed below?

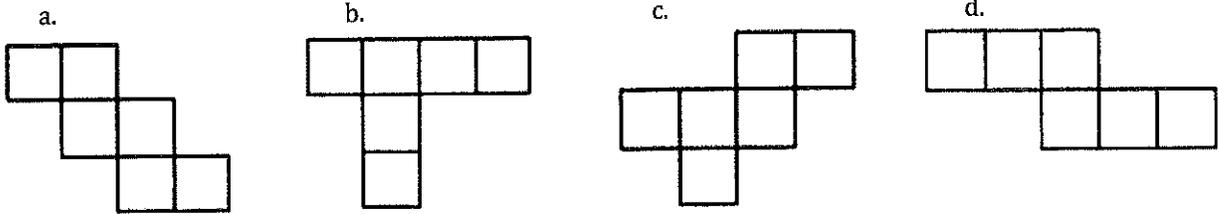


- $4 + \sqrt{10}$
  - $8 + 4\sqrt{5}$
  - $4 + 2\sqrt{5}$
  - $8 + 2\sqrt{22}$
35. Sophia is at the market buying fruit for her family of four. Kiwi fruit is only sold in packages of three. If Sophia would like each family member to have the same number of kiwi fruits, which of the following approaches can Sophia use to determine the fewest number of kiwi fruits she should buy?
- Sophia needs to determine the greatest common multiple of 3 and 4.
  - Sophia needs to determine the least common multiple of 3 and 4.
  - Sophia needs to determine the least common divisor of 3 and 4.
  - Sophia needs to determine the greatest common divisor of 3 and 4.
36. If  $a$ ,  $b$ , and  $c$  are even integers and  $3a^2 + 9b^3 = c$ , which of these is the largest number which must be factor of  $c$ ?
- 2
  - 3
  - 6
  - 12

37. Elijah pays a \$30 park entrance fee, plus \$4 for every ticket purchased. Which of the following equations represents the cost?

- a.  $y = 30x + 4$
- b.  $y = 34x$
- c.  $y = 4x + 30$
- d.  $y = 34x + 30$

38. Which of these is **NOT** a net of a cube?



39. Which of these tables properly displays the measures of central tendency which can be used for nominal, interval, and ordinal data?

a.

	Mean	Median	Mode
Nominal			x
Interval	x	x	x
Ordinal		x	x

b.

	Mean	Median	Mode
Nominal			x
Interval	x	x	x
Ordinal	x	x	x

c.

	Mean	Median	Mode
Nominal	x	x	x
Interval	x	x	x
Ordinal	x	x	x

d.

	Mean	Median	Mode
Nominal			x
Interval	x	x	
Ordinal	x	x	x

40. Which of the following is **NOT** a way to teach young children to recognize patterns?

- a. Count by twos beginning with 5
- b. Comparing geometric shapes
- c. Solving for x in an equation
- d. Analyzing the results of a class survey

## Constructed response

### 400-600 word response

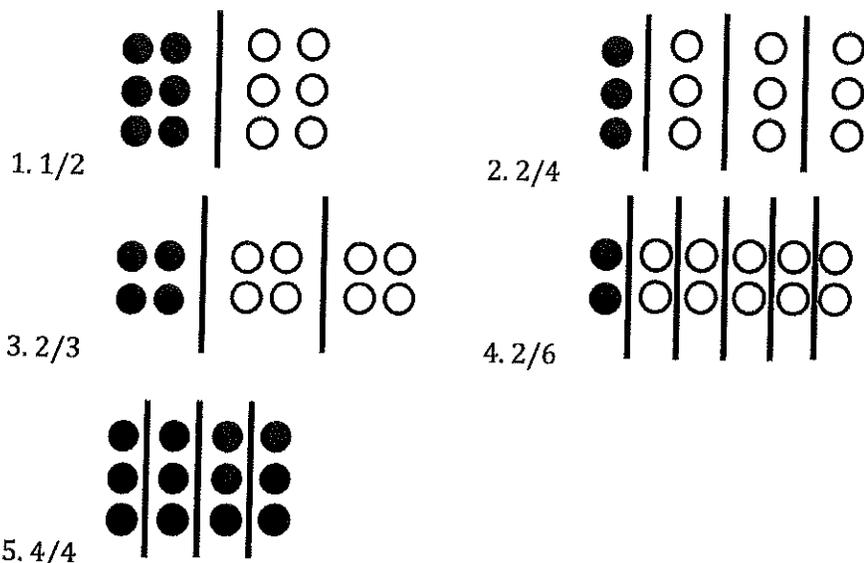
In this constructed response activity, you will be presented with a sample of a student's response to an assignment. You must respond by identifying a student's noteworthy strengths and their weaknesses, presenting evidence of each. Then, you must describe how you would provide an instructional intervention which builds from the student's strength to address the student's needs. Then explain how your intervention will be effective in meeting the student's needs. Your response should be between 400 and 600 words.

### Exhibit 1: Background information and description of class activity

Mr. Romero recently taught a lesson on simple fractions to his second grade class. This was demonstrated by breaking a chocolate bar into fourths and by drawing the chocolate bar on the board and showing how two halves and one whole are the same. The lesson progressed into demonstrating fractions of halves, thirds, fourths, and fifths. Students were then given small round candies and were required to arrange their candies to correspond with written fractions. The students were also given Popsicle sticks to help separate out their candies into the proper groupings

### Exhibit 2: Calvin's work

Key: On this assignment, students are to arrange their candies into groups based on denominator. They then would draw circles and lines representing their candies. The students would then color in those which represent the numerator.



### Response

Provide a response between 400 and 600 words on a separate piece of paper.

## Arts and Sciences

1. What steps should precede drawing a conclusion about a hypothesis?
  - a. Testing, observing, and recording data
  - b. Communicating the hypothesis to others
  - c. Comparing data with data of other groups
  - d. Writing the results so they can be replicated
2. The density of a material refers to:
  - a. Mass per volume
  - b. Mass per mole
  - c. Molecular weight per volume
  - d. Moles per volume
3. What is the difference between mass and weight?
  - a. There is no difference; they are the same
  - b. Mass is the amount of matter in an object; weight is the pull of gravity on the object
  - c. Mass determines the amount of volume of an object; weight does not
  - d. Mass is the amount of cubic space that an object occupies. Cubic space is not related to weight
4. Which of these refers to the oceans and water areas of earth?
  - a. Atmosphere
  - b. Hydrosphere
  - c. Exosphere
  - d. Lithosphere
5. What is a practical purpose for the glass walls of skyscrapers?
  - a. Decoration
  - b. Insulation
  - c. Privacy
  - d. Support
6. What effect does science have on technology?
  - a. Science verifies what technology discovers
  - b. Technology often results from scientific discoveries
  - c. Science has no effect on technology; each is independent of the other
  - d. Scientific progress is dependent on technology
7. Repetition is important to scientific inquiry because
  - a. It is the only way to prove that an experiment is valid
  - b. It adds to the number of statistics supporting the concept
  - c. It assists the scientist in determining which data to consider
  - d. It requires many groups of investigators working on a project

8. Which of the following statements is true about the physical properties of liquids and gases?
- Liquids and gases are both compressible
  - Liquids flow, but gases do not
  - Liquids flow and gases are incompressible
  - Liquids flow and gases are compressible
  - Gases flow and liquids are incompressible
- I and III
  - II and IV
  - III and V
  - IV and V
9. Which of the following explains why less force is required to throw a tennis ball a certain distance than a shot put?
- The shot put must overcome inertia.
  - The tennis ball has more potential energy.
  - The shot put has greater mass.
  - The tennis ball requires horizontal projection.
10. World weather patterns are very much influenced by
- Wind belts
  - The Earth's orbit
  - Ocean currents
  - Atmospheric conditions
11. In the technological design process, after the problem has been identified and a possible solution selected, what is the next step?
- Propose designs
  - Evaluate the solution
  - Try out the proposed solution
  - Report results
12. When deciding to measure the sides of a two-dimensional object, what attributes of that object should be considered?
- Volume and liquid measurement
  - Length and width
  - Weight and mass
  - Perimeter and area
13. Students are planning to assemble and operate a small gasoline engine. Which safety concern should have the highest priority?
- An open fuel tank could release sickening fumes.
  - Fingers could be injured if caught in the gears.
  - Spilled liquids may cause a short in the starter.
  - The exhaust fumes require adequate ventilation.
14. Adding a catalyst to a reaction will do which of the following to that reaction:
- Shift the reaction equilibrium towards the products
  - Increase the temperature of the reaction
  - Decrease the energy of activation for the reaction
  - Increase the purity of the reaction products

15. A space station is revolving in a circular orbit around Earth. Consider the following three statements:

- I. The center of mass of the space station is necessarily located at its geometric center.
- II. The center of mass is moving at a constant velocity.
- III. The center of mass of the space station is moving at a constant speed.

Which of the following statements is true?

- a. I is true.
- b. II is true.
- c. III is true.
- d. I, II, and III are not true.

16. Which of the following are required by all organisms in order to survive?

- a. Water, cells, shelter, and space
- b. Food, water, cellular growth, nurturing
- c. Food, water, sunlight, and air
- d. Air, shelter, space, and companionship

17. The results of increased production of crops and a managed approach to agriculture is called

- a. The industrial revolution
- b. The information revolution
- c. The agricultural revolution
- d. The scientific revolution

18. Which map describes the movement of people, trends, or materials across a physical area?

- a. Political Map
- b. Cartogram
- c. Qualitative Map
- d. Flow-line Map

19. It is snack time in your kindergarten class, and you pour two children equal amounts of water; however, one child's cup is bigger. The child with the bigger cup complains that he has less water. In terms of cognitive development, what can you determine by this complaint?

- a. The child has a developmental delay because he does not understand conservation.
- b. The child has not reached the concrete operational stage and does not understand conservation; this is normal for a child of this age.
- c. The child is displaying a delay in intuitive processes commonly acquired during the pre-operational stage of cognitive development.
- d. The child is displaying a preconceptual process that is common among this age group.

20. Ivy loses her job because her skills as a seamstress are no longer required due to a new piece of machinery that does the work of a seamstress more quickly and for less money.

Which type of unemployment is this?

- a. Frictional
- b. Structural
- c. Cyclical
- d. Careless

21. Due process means
- It's important for every citizen to follow the laws of their state and country
  - Any accused person may confront the accuser and provide a defense
  - Capital punishment is appropriate if a person is convicted of murder
  - An accused person is considered guilty until proven to be innocent
22. Which type of chart is best at representing the cycle of demographic transition?
- Pie chart
  - Political map
  - Line graph
  - Flow-line map
23. Which of the following was *not* an immediate effect of rapid urban growth in the 1800s?
- Poor sanitation conditions in the cities
  - Epidemics of diseases in the cities
  - Inadequate police and fire protection
  - Widespread urban political corruption
24. Which of the following are not included in a geographical definition of Southeast Asia?
- Myanmar, Laos, Cambodia, and Thailand
  - Vietnam, the Malay Peninsula, and Brunei
  - East Malaysia, Indonesia, and the Philippines
  - These are all geographical parts of Southeast Asia
25. Social and behavioral theories of learning stress the importance of
- Good behavior on the part of students
  - The social interactions of students that aid or inhibit learning
  - A reward system for good behavior or growth in skills
  - The direct connection between thoughts and speech
26. Inflation has what effects?
- Harms all members of an economy
  - Helps all members of an economy
  - Harms no members of an economy
  - Harms some members of an economy, helps others
27. In the Constitution of the United States, which of the following powers are reserved for the states?
- Taxation
  - Declaring war
  - Regulation of intrastate trade
  - Granting patents and copyrights
28. On a map of Africa, there is a small box around Nairobi. This city is depicted in greater detail in a box at the bottom of the map. What is the name for this box at the bottom of the map?
- Inset
  - Legend
  - Compass Rose
  - Key

29. Which of the following choices is/are *not* considered among causes of the French Revolution?
- Famines causing malnutrition and starvation
  - War debt, Court spending, bad monetary system
  - Resentment against the Catholic Church's rule
  - Resentment against the Protestant Reformation
30. What is the most common type of volcano on earth?
- Lava dome
  - Composite volcano
  - Shield volcano
  - Cinder cone
31. Which of the following is an important aspect of allowing and encouraging children's play?
- Children need frequent opportunities to rest and relax
  - Play teaches children cooperation and sharing
  - Play encourages competition and opposition
  - Play time gives the teacher a much needed rest period
32. Which of the following best defines American GDP?
- The value, in American dollars, of all goods and services produced within American borders during one calendar year
  - The value, in American dollars, of all goods and services produced by American companies during one calendar year
  - The total value, in American dollars, of all American household incomes during one calendar year
  - The value, in American dollars, of a "market basket" of goods and services in one year divided by the value of the same market basket in a previous year multiplied by 100
33. Which of the following is not one of the primary elements of art?
- Dimension
  - Unity
  - Texture
  - Space
34. When encountering a difficult passage, how do musicians most effectively practice that passage?
- Playing it as fast as possible
  - Studying it away from the instrument
  - Playing it slowly and thoughtfully
  - Playing the sections before and after
35. To ensure maximum dramatic effect, a director places actors onstage precisely where he wants them. What is this called?
- Positioning
  - Staging
  - Choreography
  - Blocking

36. Which of these facts about smoking is LEAST likely to discourage a 14-year-old boy from taking up the habit?
- a. Smokers are ten times more likely to die of lung cancer than nonsmokers.
  - b. Smoking is a very expensive habit.
  - c. Many girls won't date a boy who smokes.
  - d. Smoking can seriously impair athletic performance.
37. Which of the following kinds of activities are BEST suited for developing perceptual-motor skills in adolescents?
- a. one-step physical activities to build foundational skills
  - b. fun physical activities that consist of identifiable steps
  - c. any physical activities at all, as long as they are fun
  - d. any activities that involve hearing, seeing, or touching
38. According to Kohlberg, at which developmental level do children understand that good behavior is expected?
- a. Post-Conventional
  - b. Conventional
  - c. Pre-Conventional
  - d. Adolescent
39. Which of the following represents a discretionary expense?
- a. Textbook
  - b. Rent
  - c. DVD
  - d. Groceries
40. What type of business is the most common employer of high-school students?
- a. Grocery stores
  - b. Movie theaters
  - c. Clothing stores
  - d. Restaurants