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Topic Break Down

Topic	No. of Questions
Topic 1, Lower Level Test (Grades 4-5)	128
Topic 2, Middle Level Test (Grades 6-7)	161
Topic 3, Upper Level Test (Grades 8-11)	161
Total	450

QUESTION NO: 1

1 Since prehistoric times, people have
2 grown cotton to make clothing: archaeologists
3 have found pieces of cotton fabric in Mexico
4 and Pakistan dating from as far back as 5000
5 BC. Not only is cotton one of our most ancient
6 clothing materials, it is also the most
7 commonly used fiber in clothing today.
8 Although many people wear it daily, they may
9 not be aware of the role cotton has played in
10 history.

11 In the United States, most cotton was
12 produced in the fertile South. Until the end of
13 the 18th century, the US cotton industry was
14 small, yielding only about 900,000 kilograms
15 of cotton in 1791. The industry began to grow
16 tremendously in 1793, when the American Eli
17 Whitney invented the cotton gin. Before the
18 cotton gin, a bale of cotton required over 600
19 hours of labor to produce. With Whitney's
20 invention, the process took only about 12
21 hours. With this increase in efficiency, cotton
22 soon became the dominant industry in the
23 South, and by 1801 the United States was
24 producing more than 22 million kilograms of
25 cotton every year.

26 By 1860, one year before the start of the
27 American Civil War, the Southern States
28 supplied the majority of the world's cotton.
29 The cotton industry brought in huge profits for
30 the plantation owners. However, these profits
31 were accompanied by a substantial growth in
32 the slave industry, since slaves comprised the
33 majority of the workforce on cotton

34 plantations. By 1860, slaves constituted more
35 than 50% of the population of the cotton-
36 producing states of Alabama, Mississippi, and
37 Louisiana. The growth of the slave-based
38 cotton industry contributed in turn to the
39 American Civil War, since the North opposed
40 the use of slave labor, and the South was
41 emboldened by the power of the cotton
42 industry.

43 During the Civil War, the Southern States
44 attempted a policy called "cotton diplomacy."
45 Most of the cotton produced in the American
46 South was exported to Europe, which was
47 dependent on American raw cotton for its
48 textile industry. The Southern States
49 attempted to use their economic influence to
50 persuade Great Britain to side with them in the
51 Civil War by drastically reducing the amount of
52 cotton they supplied. So strong was their belief
53 that Great Britain would accede to their
54 request that the plantation owners dubbed
55 their crop "King Cotton." Unfortunately for
56 them, the warehouses of Great Britain had
57 already imported and stockpiled a huge
58 surplus of cotton. Cotton diplomacy failed, and
59 neither Great Britain nor any other European
60 power intervened during the Civil War.

61 The history of cotton is woven together
62 with agricultural slavery, industrial advances,
63 civil war, and foreign diplomacy. It has not
64 only been a fiber of choice in our clothing for
65 thousands of years, but also a significant
66 strand in the fabric of history.

Which best describes the organization of the passage?

- A. A subject is introduced, and events are described in chronological order.
- B. Each paragraph discusses a different aspect of the same problem.
- C. The passage describes a particular historical event and discusses its importance.
- D. Questions are posed and then answers are considered.

ANSWER: A**QUESTION NO: 2**

Lucy is ordering some books online. There is a flat shipping fee for the first book she orders, and an additional charge for every extra book. This is represented by the formula $y = 0.75(x - 1) + 7$, where y is the total shipping cost and x is the total number of books ordered.

What is the meaning of 0.75 in this formula?

- A. For every dollar it costs to ship, there are 0.75 books being mailed.
- B. For every book bought, the shipping cost is \$6.25.
- C. For every extra book bought after the first, shipping costs an additional \$0.75 per book.
- D. When 7 books are bought, the shipping cost is \$0.75.

ANSWER: C**QUESTION NO: 3**

The perimeter of a triangle is 23 cm. All the side lengths are integers.

If one side measures 5 cm, what is the length of the largest possible side?

- A. 9 cm
- B. 11 cm
- C. 12 cm
- D. 15 cm

ANSWER: B**QUESTION NO: 4 - (SIMULATION)**

SIMULATION Essay Topic

If you could change one trend in popular culture, what would it be? Describe the trend, and explain why and how you would like to change it.

- Only write on this essay question
- Only pages 3 and 4 will be sent to the schools
- Only write in blue or black pen

NOTES:

ANSWER: See explanation below.**Explanation:**

You will have 30 minutes to plan and write an essay on the topic printed on the other side of this page. Do not write on another topic. An essay on another topic is not acceptable.

The essay is designed to give you an opportunity to show how well you can write. You should try to express your thoughts clearly. How well you write is much more important than how much you write, but you need to say enough for a reader to understand what you mean.

You will probably want to write more than a short paragraph. You should also be aware that a copy of your essay will be sent to each school that will be receiving your test results. You are to write only in the appropriate section of the answer sheet. Please write or print so that your writing may be read by someone who is not familiar with your handwriting.

You may make notes and plan your essay on the reverse side of the page. Allow enough time to copy the final form onto your answer sheet. You must copy the essay topic onto your answer sheet, on page 3, in the box provided.

Please remember to write only the final draft of the essay on pages 6-7 of your answer sheet and to write it in blue or black pen. Again, you may use cursive writing or you may print. Only pages 6-7 will be sent to the schools.

REMINDER: Please write this essay topic on the first few lines of page 6 of your answer sheet.

QUESTION NO: 5

Kaitlin measured the weight of her pet hamsters on a weekly basis for four weeks. The table below shows the data she collected.

Hamster	Week 1 Weight (in ounces)	Week 2 Weight (in ounces)	Week 3 Weight (in ounces)	Week 4 Weight (in ounces)
Lulu	2	8	9	9
Buttercup	6	7	8	9
Cream Puff	10	12	15	21
Pepper	4	7	11	13

Which of Kaitlin's hamsters gained the most weight over the first two weeks?

- A. Lulu
- B. Buttercup

- C. Cream Puff
- D. Pepper

ANSWER: A

QUESTION NO: 6

Select the word that best completes the sentence.

In a victory for police and law enforcement the Supreme Court _____ a lower court's ruling, which allowed officers to take DNA samples from arrested suspects.

- A. proposed
- B. dismissed
- C. upheld
- D. criticized

ANSWER: C

QUESTION NO: 7

Select the word that is most nearly the same in meaning as the word in capital letters.

VIGOROUS

- A. stacked
- B. strong
- C. lame
- D. ridiculous

ANSWER: B

QUESTION NO: 8

A cubic box has a side length of 2 cm.

How many of these boxes could fit inside a larger cubic box whose base has a perimeter of 24 cm?

- A. 12

- B. 23
- C. 27
- D. 36

ANSWER: C

QUESTION NO: 9

If M is an odd number, which of the following must also be odd?

- A. $2M$
- B. M^2
- C. $M - 3$
- D. $M - M$

ANSWER: B

QUESTION NO: 10

Alicia's math quizzes are graded on a scale from 0 to 10. Her average on three quizzes is a 6. Her final math quiz will be counted twice towards her average.

What does she need to score on her final quiz in order to raise her average score to a 7?

- A. 7
- B. 7.5
- C. 8
- D. 8.5

ANSWER: D

QUESTION NO: 11

Which number is divisible by 9 with a remainder of 1?

- A. 181
- B. 180

C. 179

D. 178

ANSWER: A

QUESTION NO: 12

Which expression is equivalent to the expression $(2x^3y^4)(x-3y^2) + 2y^6$?

A. $4y^6$

B. $4x^9y^8$

C. $2x^6y^6 + 2y^6$

D. $4x^0y^{12}$

ANSWER: A

QUESTION NO: 13

Select the word that best completes the sentence.

Male lemurs are normally quite _____, but they become highly aggressive towards other males during their short mating season.

A. tactile

B. various

C. supernatural

D. docile

ANSWER: D

QUESTION NO: 14

Select the word that is most nearly the same in meaning as the word in capital letters.

EVOKE

A. antagonize

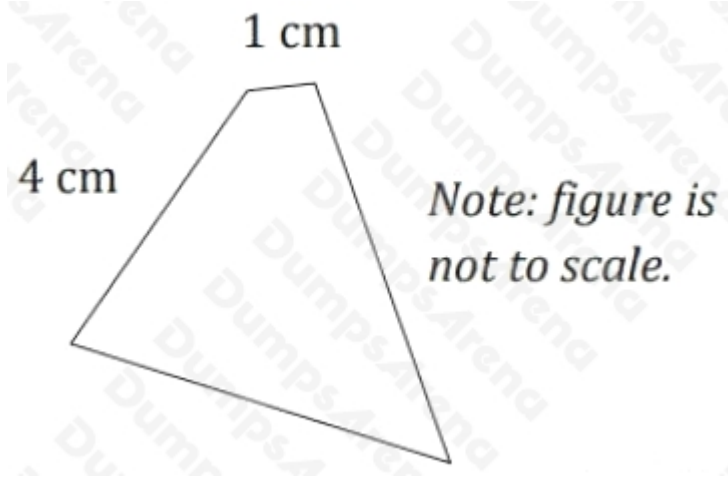
B. elicit

- C. scourge
- D. burn

ANSWER: B

QUESTION NO: 15

The perimeter of a quadrilateral is 18 centimeters.



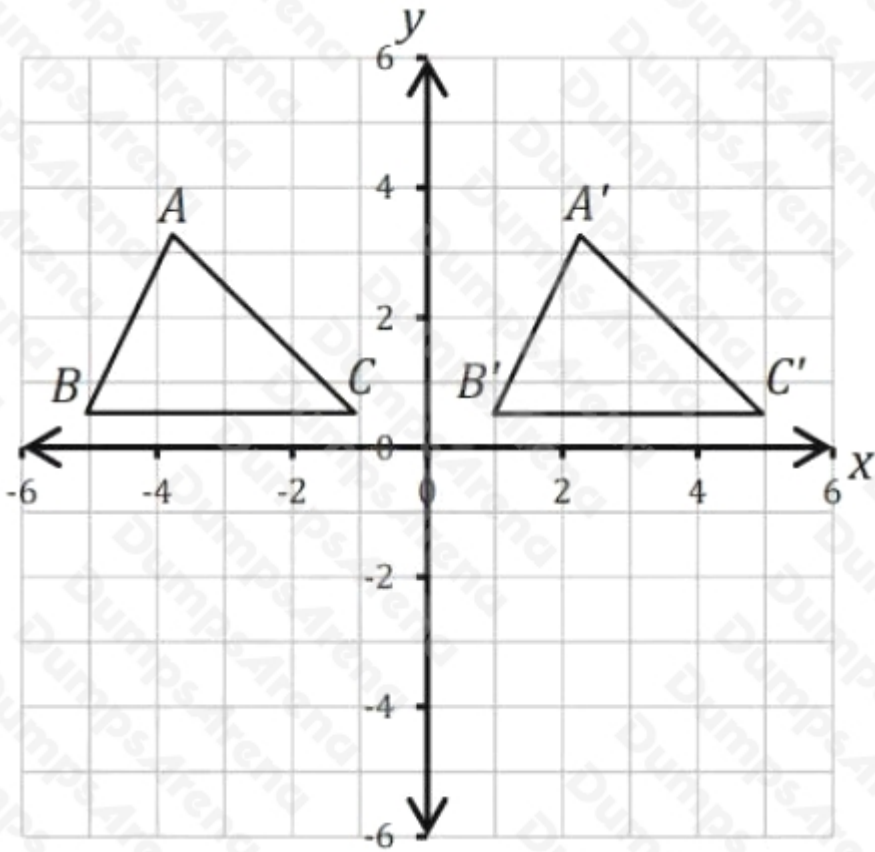
Which of the following combinations could be the lengths of the two unknown sides?

- A. 4 cm and 4 cm
- B. 5 cm and 6 cm
- C. 6 cm and 7 cm
- D. 7 cm and 9 cm

ANSWER: C

QUESTION NO: 16

Refer to the picture.



How has triangle ABC been transformed to produce triangle A'B'C'?

- A. Triangle ABC was reflected across the x-axis
- B. Triangle ABC was rotated 90°
- C. Triangle ABC was translated horizontally 2 units to the right
- D. Triangle ABC was translated horizontally 6 units to the right

ANSWER: D

QUESTION NO: 17

What is the mode of this set of data?

TIME SPENT READING (IN MINUTES)							
Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	12	30	18	40	25	30	30
2	30	15	45	20	30	40	30
3	20	30	30	35	45	30	25

- A. 15
- B. 25
- C. 30
- D. 45

ANSWER: C

QUESTION NO: 18

1 How could life possibly have gotten
2 started on Earth? How could so many and such
3 a stunning number and variety of organisms
4 have come into existence? Few questions have
5 puzzled so many, for so long. Philosophers,
6 authors, and scientists have pondered,
7 discussed, and explored the issue for decades,
8 and numerous hypotheses have been proposed
9 over time: maybe the first organic molecules
10 were formed in the deep ocean, from chemicals
11 spewed out by volcanic vents. Maybe the
12 earliest life was actually made of simple
13 molecules, and these simple organisms created
14 the molecules used by complex living
15 organisms today. Maybe life came to Earth
16 from outer space. But in 1952, in a laboratory
17 in Chicago, one hypothesis was about to be put
18 to the test.

19 For decades, Alexander Oparin and J.B.S.
20 Haldane had proposed that conditions on the
21 early Earth favored chemical reactions that
22 could produce organic compounds – the
23 building blocks of life – from inorganic
24 precursors. At the University of Chicago,
25 Stanley Miller and Harold Urey had devised an
26 experiment to test the idea. The team filled a

27 network of glass flasks and tubes with water, to
28 simulate the early ocean, and with the same
29 gases believed to be present in the early
30 atmosphere. They applied heat, causing some
31 of the water to evaporate and begin to circulate
32 through the tubes as vapor. They then created
33 electrical sparks inside the apparatus to
34 simulate lightning. As the experiment
35 proceeded, the mixture began to change color.
36 After a few days, when the contents were
37 analyzed, the scientists found what they were
38 looking for: the very same organic compounds
39 that are the building blocks of all life on Earth.
40 While the Miller-Urey experiment did not
41 finally answer the question of life's origins, it
42 provided support for the hypothesis that
43 conditions on the early Earth could generate
44 the necessary components of life, and showed
45 that natural chemical processes could well
46 have been all that was required to strike the
47 spark of life. One of the most meaningful steps
48 in the quest for an answer to the question of
49 life, the Miller-Urey experiment, over the
50 course of a few days, revolutionized a
51 conversation which has been taking place for
52 thousands of years.

According to the passage, philosophers, authors, and scientists have all:

- A. conducted experiments to test theories of how life may have started.
- B. pondered the beginnings of life in their own ways.
- C. generally agreed on the best theories to explain life's origins.
- D. successfully answered the question of life's origins in different ways.

ANSWER: B

QUESTION NO: 19

$$\frac{x}{4} + 14 = 16$$

Which is a value of x in the math equation ?

- A. 1/2

- B. 2
- C. 8
- D. 26

ANSWER: C

QUESTION NO: 20

A bag contains 3 yellow marbles, 5 blue marbles, and 7 red marbles.

Column A

The probability of choosing a yellow marble followed by a red marble

Column B

The probability of choosing a red marble followed by a yellow marble

Compare the quantity in column A to the quantity in Column B.

- A. The quantity in Column A is greater.
- B. The quantity in Column B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

ANSWER: C