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QUESTION 1

HOTSPOT

Michael took 12 tests in his math class. His lowest test score was 78. His highest test score was 98. On the 13th test, he earned a 64. Choose whether the value of each statistic for his test scores increased, decreased, or could not be determined when the last test score was added.

Hot Area:

	Standard Deviation	Median	Mean
Increased	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Decreased	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Could Not Be Determined	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

	Standard Deviation	Median	Mean
Increased	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Decreased	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Could Not Be Determined	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

QUESTION 2

A student is writing an article about safety in high school athletics. Read the draft of the article and complete the task that follows.

Just how safe are high school athletics? Critics would argue that most sports are highly dangerous to those teens who participate in them. Recently football has been the most closely scrutinized. The dangers of the high school gridiron are many: head injuries, knee injuries, and heat exhaustion. It seems as if every year more studies are released implicating the immediate and long-term effects of this highly physical sport. Football, however, is not the only sport that has drawn attention. Any sport that involves contact (basketball, hockey, lacrosse) can leave its players vulnerable to injury. The question then becomes: what is being done to prevent these injuries?

Steps are being taken to reduce the most serious complications of all sports. One way that these issues are being addressed is through the development of new equipment. Another way is through more stringent rules that govern practices as well as game time situations. Most importantly, educating players, coaches, and parents to the real dangers of athletics has taken a new priority. Through education, regulations, and equipment, high school sports can continue to be a source of entertainment, not danger.

Choose the two sentences that provide the best evidence to support the main idea of the paper.

- A. It has been estimated that nearly half of all high school participates in athletics on some level.
- B. This school district reports that each high school has a minimum of five varsity sports; this number does not include junior varsity or community leagues.
- C. Bob Jones, Southern High's athletic director, added this comment: "We had a very successful season; injuries did not play a measurable role in our record."
- D. District wide data indicates that students are injured on school property at a relatively low rate; last year only thirty-three accidents were reported that resulted in student injury.
- E. One of the most visible educational campaigns has been launched by the National Football League (NFL); it is entitled "Heads UP" and trains coaches and student athletes on techniques to avoid head injuries.
- F. In a 2010 study, American University found that close to 80 percent of high school athletes had reported injuries during their athletic careers; approximately 25 percent of these injuries were considered serious.

Correct Answer: EF

QUESTION 3

Consider a sequence whose first five terms are: -1.75, -0.5, 0.75, 2, 3.25

Which function (with domain all integers $n \geq 1$) could be used to define and continue this sequence?

- A. $f(n) = \frac{7}{4}(n-1) - \frac{5}{4}$
- B. $f(n) = \frac{5}{4}(n-1) - \frac{7}{4}$
- C. $f(n) = \frac{7}{4}n - \frac{5}{4}$
- D. $f(n) = \frac{5}{4}n - \frac{7}{4}$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

QUESTION 4

Choose an expression that is equivalent to $\sqrt{3^8}$.

- A. $3\frac{1}{4}$
- B. 3^3
- C. 3^4
- D. 3^6

A. Option A

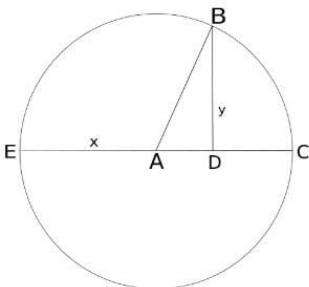
B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 5



The diagram shows a circle with a center at A. ADB is a right angle. EC is a line segment. Points A and D lie on this segment. Segment AE has length x , segment BD has length y , and angle BAC has measure m degrees. Which of these statements is/are true based on the given diagram?

1. segment $AD \cong$ segment DC
2. $\sin(BAC) = \frac{y}{x}$
3. EAB and CAB are complementary angles
4. segment $EC \cong 2(\text{segment } EA)$

A. only statement 3

B. All 4 statements are true.

C. statements 2 and 4 only

D. statements 1, 3, and 4 only

Correct Answer: C

QUESTION 6

Given this table of values for a polynomial function $y = f(x)$, which values of x could be possible zeros for the function?

x	-1	0	1	2	3
$f(x)$	-5	2	-3	-1	6

- A. -0.5 and 2.5
- B. 0.5 and 1.5
- C. 1.5 and 2.5
- D. -0.5 and 0.5

Correct Answer: D

QUESTION 7

Read the text attached.

"Declaration of Conscience" by Margaret Chase Smith June 1, 1950

Mr. President, I would like to speak briefly and simply about a serious national condition. It is a national feeling of fear and frustration that could result in national suicide and the end of everything that we Americans hold dear. It is a condition

that comes from the lack of effective leadership either in the legislative branch or the executive branch of our government...

...I speak as a Republican. I speak as a woman. I speak as a United States senator. I speak as an American...

...I think that it is high time for the United States Senate and its members to do some real soul searching and to weigh our consciences as to the manner in which we are performing our duty to the people of America and the manner in which

we are using or abusing our individual powers and privileges.

I think that it is high time that we remembered that we have sworn to uphold and defend the Constitution. I think that it is high time that we remembered that the Constitution, as amended, speaks not only of the freedom of speech, but also of

trial by jury instead of trial by accusation.

Whether it is a criminal prosecution in court or a character prosecution in the Senate, there is little practical distinction when the life of a person has been ruined.

"The Basic Principles of Americanism"

Those of use who shout the loudest about Americanism in making character assassinations are all too frequently those who, by our own words and acts, ignore some of the basic principles of Americanism ?

The right to criticize.

The right to hold unpopular beliefs.

The right to protest.

The right of independent thought.

The exercise of these rights should not cost one single American citizen his reputation or his right to a livelihood nor should he be in danger of losing his reputation or livelihood merely because he happens to know someone who holds unpopular beliefs. Who of us does not? Otherwise none of us could call our souls our own. Otherwise thought control would have set in.

The American people are sick and tired of being afraid to speak their minds lest they be politically smeared as "Communists" or "Fascists" by their opponents. Freedom of speech is not what it used to be in America. It has been so abused by

some that it is not exercised by others.

The American people are sick and tired of seeing innocent people smeared and guilty people whitewashed. But there have been enough proved cases...to cause nationwide distrust and strong suspicion that there may be something to the unproved, sensational accusations.

A Challenge to the Republican Party

As a Republican, I say to my colleagues on this side of the aisle that the Republican Party faces a challenge today that is not unlike the challenge that it faced back in Lincoln's day. The Republican Party so successfully met that challenge that

it emerged from the Civil War as the champion of a united nation ?in addition to being a party that unrelentingly fought loose spending and loose programs....

The Democratic administration has greatly lost the confidence of the American people by its complacency to the threat of communism here at home and the leak of vital secrets to Russia through key officials of the Democratic administration.

There are enough proved cases to make this point without diluting our criticism with unproved charges.

Surely these are sufficient reasons to make it clear to the American people that it is time for a change and that a Republican victory is necessary to the security of this country.... Yet to displace it with a Republican regime embracing a

philosophy that lacks political integrity or intellectual honesty would prove equally disastrous to this Nation. The nation sorely needs a Republican victory. But I do not want to see the Republican party ride to political victory... [using] fear,

ignorance, bigotry, and smear... I do not want to see the Republican party win that way. While it might be a fleeting victory for the Republican party, it would be a more lasting defeat for the American people. Surely it would ultimately be

suicide for the Republican party and the two-party system that has protected our American liberties from the dictatorship of a one-party system.

As members of the minority party, we do not have the primary authority to formulate the policy of our government. But we do have the responsibility of rendering constructive criticism, of clarifying issues, of allaying fears by acting as

responsible citizens.

As a woman, I wonder how the mothers, wives, sisters, and daughters feel about the way in which members of their families have been politically mangled in Senate debate - and I use the word "debate" advisedly...

I do not like the way the Senate has been made a rendezvous for vilification, for selfish political gain at the sacrifice of individual reputations and national unity. I am not proud of the way we smear outsiders from the floor of the Senate and

hide behind the cloak of congressional immunity and still place ourselves beyond criticism on the floor of the Senate.

As an American, I am shocked at the way Republicans and Democrats alike are playing directly into the Communist design of "confuse, divide, and conquer." As an American, I don't want a Democratic administration "whitewash" or "coverup" any more than I want a Republican smear or witch hunt.

As an American, I condemn a Republican Fascist just as much as I condemn a Democrat Communist. I condemn a Democrat Fascist just as much as I condemn a Republican Communist. They are equally dangerous to you and me and to

our country. As an American, I want to see our nation recapture the strength and unity it once had when we fought the enemy instead of ourselves.

It is with these thoughts that I have drafted what I call a Declaration of Conscience. I am gratified that the senator from New Hampshire, the senator from Vermont, the senator from Oregon, the senator from New York, the senator from

Minnesota and the senator from New Jersey have concurred in that declaration and have authorized me to announce their concurrence.

Which answer best describes the central idea of the attached text?

- A. Men in the nation are not giving women the credit they are due or the voice they deserve. This is why she mentions that she is speaking as a woman about her concerns regarding the direction of the nation.
- B. Only the Republican Party can reinstate the order and decorum necessary to run the country. Without strong Republican leadership, we will continue to flounder and fight among ourselves and run the risk of failing as a nation on the world's stage.
- C. Communism is a real threat to the safety and security of the nation. If the politicians in the Senate don't pass some legislation soon to protect against the spread of Communism and Fascism, then the freedoms Americans know and live by are going to be lost forever.
- D. Too much infighting and negative politicking is ripping apart the very foundations of what this country stands for. We need to stop looking for excuses to be divided and work together to keep the nation strong against outside forces that might like to see this great nation fail.

Correct Answer: D

QUESTION 8

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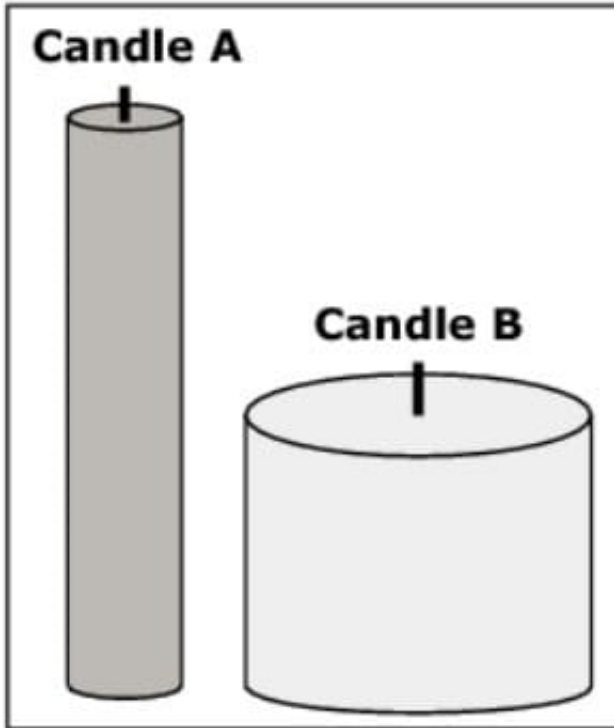
Case study

Lights, Candles, Action!

Your friend Abbie is making a movie. She is filming a fancy dinner scene and she has two types of candles on the table. She wants to determine how long the candles will last.

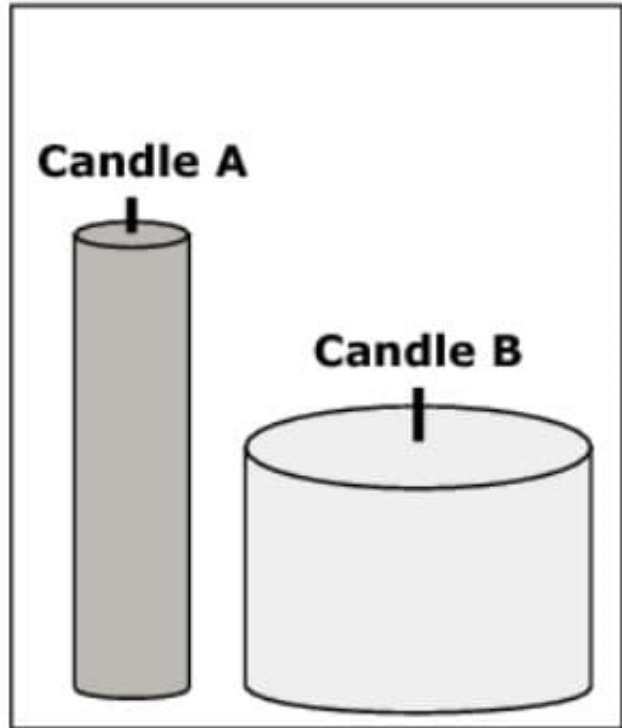
She takes a picture, lights the candles, and then lets them burn for 1 hour. She then takes a second picture. You can assume that each candle burns at its own constant rate.

First Picture:



Time = 0 hrs

Second Picture:



Time = 1 hr

Candle Type A initial height = 20 cm

Candle Type B initial height = 10 cm
Candle Type A height after burning for 1 hour = 16 cm
Candle Type B height after burning for 1 hour = 9 cm

You will use this information to help Abbie think about the candles she might use for her film.

You have decided to use functions to help Abbie think about the candles.

You show her how to represent the height of a candle, h , as a function of time, t , using this equation:

$$h = k + nt$$

First, explain to Abbie what k and n represent in order to model the different candles. Be specific in your explanation.

A.

See explanation below.

Correct Answer: A

2 points: The student correctly identifies that " k " represents the initial height of the candle and " n " represents the burn rate of the candle.

1 point: The student is only able to correctly identify one of the parameters, not both.

0 points: All other responses

Note: It is necessary for the student to identify "k" as the initial or original height in order to receive full credit, because the height of the candle changes as it burns and it is represented by "h" in the equation.

QUESTION 9

Read the story attached.

"Roughing It" by Mark Twain

My brother had just been appointed Secretary of Nevada Territory ?an office of such majesty that it concentrated in itself the duties and dignities of Treasurer, Comptroller, Secretary of State, and Acting Governor in the Governor's absence. A salary of eighteen hundred dollars a year and the title of "Mr. Secretary," gave to the great position an air of wild and imposing grandeur. I was young and ignorant, and I envied my brother. I coveted his distinction and his financial splendor, but particularly and especially the long, strange journey he was going to make, and the curious new world he was going to explore. He was going to travel! I never had been away from home, and that word "travel" had a seductive charm for me. Pretty soon he would be hundreds and hundreds of miles away on the great plains and deserts, and among the mountains of the Far West, and would see buffaloes and Indians, and prairie dogs, and antelopes, and have all kinds of adventures, and may be get hanged or scalped, and have ever such a fine time, and write home and tell us all about it, and be a hero. And he would see the gold mines and the silver mines, and maybe go about of an afternoon when his work was done, and pick up two or three pailfuls of shining slugs, and nuggets of gold and silver on the hillside. And by and by he would become very rich, and return home by sea, and be able to talk as calmly about San Francisco and the ocean, and "the isthmus" as if it was nothing of any consequence to have seen those marvels face to face.

What I suffered in contemplating his happiness, pen cannot describe. And so, when he offered me, in cold blood, the sublime position of private secretary under him, it appeared to me that the heavens and the earth passed away, and the firmament was rolled together as a scroll! I had nothing more to desire. My contentment was complete.

At the end of an hour or two I was ready for the journey. Not much packing up was necessary, because we were going in the overland stage from the Missouri frontier to Nevada, and passengers were only allowed a small quantity of baggage apiece. There was no Pacific railroad in those fine times of ten or twelve years ago ?not a single rail of it. I only proposed to stay in Nevada three months ?I had no thought of staying longer than that. I meant to see all I could that was new and strange, and then hurry home to business. I little thought that I would not see the end of that three-month pleasure excursion for six or seven uncommonly long years! I dreamed all night about Indians, deserts, and silver bars, and in due time, next day, we took shipping at the St. Louis wharf on board a steamboat bound up the Missouri River. We were six days going from St. Louis to "St. Jo." ?a trip that was so dull, and sleepy, and eventless that it has left no more impression on my memory than if its duration had been six minutes instead of that many days. No record is left in my mind, now, concerning it, but a confused jumble of savage-looking snags, which we deliberately walked over with one wheel or the other; and of reefs which we butted and butted, and then retired from and climbed over in some softer place; and of sand-bars which we roosted on occasionally, and rested, and then got out our crutches and sparred over.

In fact, the boat might almost as well have gone to St. Jo. by land, for she was walking most of the time, anyhow ?climbing over reefs and clambering over snags patiently and laboriously all day long. The captain said she was a "bully" boat, and all she wanted was more "shear" and a bigger wheel. I thought she wanted a pair of stilts, but I had the deep sagacity not to say so.

The narrator of the attached story experiences a variety of feelings about his brother's appointment to serve as Secretary of Nevada Territory. Among the emotions he describes are these three.

- A. joy, pity, and disgust
- B. concern, anger, and elation

C. uneasiness, surprise, and hostility

D. envy, jealousy, and excitement

Correct Answer: D

QUESTION 10

The line $y = mx + 5$ is parallel to another line that contains the points (3, -2) and (5, 7). The value for m is _____.

- A. $\frac{9}{8}$
- B. $\frac{8}{9}$
- C. $-\frac{9}{8}$
- D. $-\frac{8}{9}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 11

The writer wants to create a more formal tone in this paragraph. Which collection of words from the paragraph has the most informal language and should definitely be replaced to make the tone more formal?

The school board met to talk about funding for after-school programs next year for kids in the district. They determined that, with the current budget, only some of the stuff could be funded. While trying to figure out what to cut, they asked for the students' input. The students didn't want to see any of their programs cut, so it's gonna be a tough fight.

A. Collection 4: stuff, talk, it's, gonna

B. Collection 3: met, kids, current, see

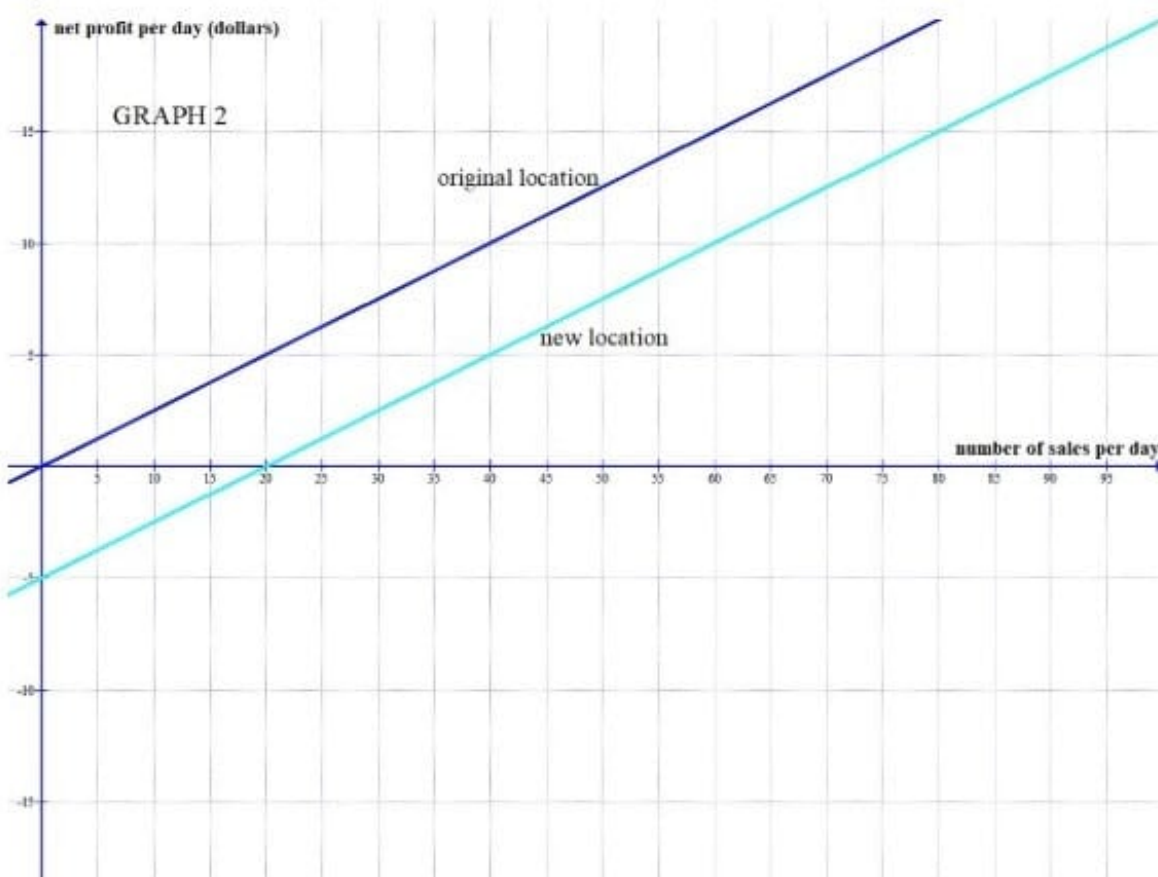
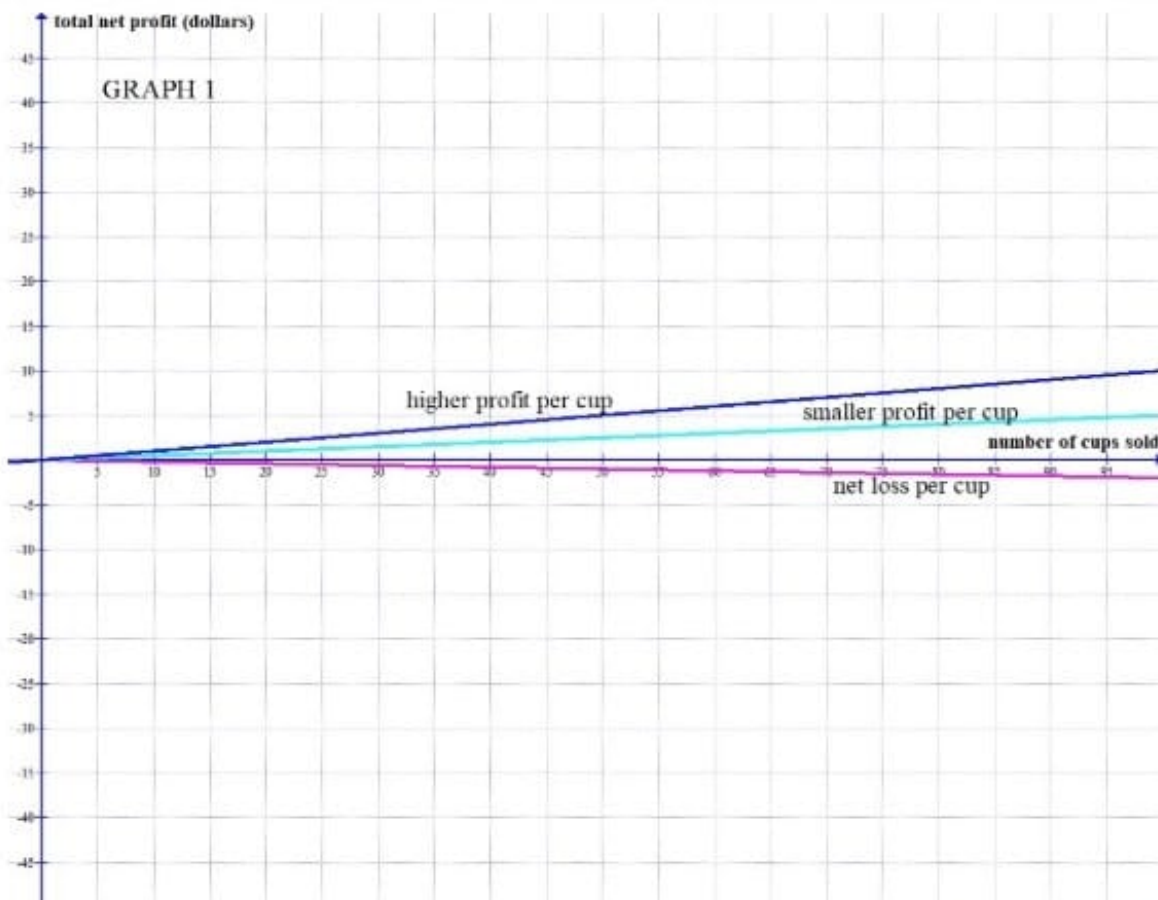
C. Collection 1: determined, some, input, fight

D. Collection 2: programs, asked, didn't, cut

Correct Answer: A

QUESTION 12

Aimee plans to open a lemonade stand. She wants to determine whether to sell an 8 ounce or 10 ounce cup of lemonade. Each 8-ounce cup costs 2 cents and 10 ounce cups are 3 cents each. The lemons to make a half-gallon of lemonade cost 5 dollars and the sugar for the half-gallon costs 85 cents. She already has all the materials needed to make the stand and she can use the location at no cost. Aimee notices that about 150 people pass by the location of her stand each day and thinks that 20 percent of these people will buy a cup of lemonade. You have made the 2 accompanying graphs to help Aimee make business decisions.



Read the attached passage and consult the attached graphs.

Juanita has a location where 300 people per day pass by, but wants Aimee to pay \$5 per day rent. Assume the same 20% of them will buy, and she is currently selling at a profit of 25 cents per cup. You show Aimee graph 2 to show the potential of the new site, but she thinks the slope of line 2 should be steeper since she is getting more customers. Explain why the slope is correct as shown.

- A. Since there are more people each day, she will be using more cups.
- B. The amount she makes per cup stays the same no matter how many people come by.
- C. Since the new line starts lower the slope decreases to match the original slope.
- D. Since she is paying rent, the slope has to decrease to match the original site.

Correct Answer: B

QUESTION 13

Read the text attached.

Study Suggests Today's US Students Are Less Efficient Readers

Do today's students perform better than their peers in 1960? Given the advances in education and technology, it would be natural to assume that the answer is a resounding "yes." But, when it comes to reading efficiency, new research

suggests that that's not the case. The research, published by the International Literacy Association, compares the comprehension-based silent reading efficiency of US students (grades 2-2) in 2011 with data collected in 1960. A key finding

was that students fall further behind as they advance through the grades, wrote Alexandra Spichtig, Ph.D., Chief Resource Officer of Reading Plus, and first author of the study. The study showed that today's second-grade students are

comparable to their peers of 50 years ago, but that by the end of high school, students' comprehension-based silent reading rates average 19 percent slower than the rates of their 1960 peers. "What we know and the data underscore this ?

is that for many students, the progression to efficient silent reading does not develop naturally. Many students need structured silent reading instruction," explains Mark Taylor, Chief Executive Officer of Reading Plus, a web-based silent

reading program for schools. Some of the benefits of implementing silent reading instruction at home or in school are: expanded vocabulary, improved comprehension, increased efficiency, enhanced reading enjoyment, [and] improved writing

skills. Experts agree that without extensive silent reading practices in the classroom or at home, students will continue to struggle and literacy rates will continue to fall short or fall behind. "Effective reading instruction must integrate fluency,

vocabulary, and comprehension practice tailored to meet each student's unique needs. This study demonstrates that as long as structured silent reading practice is neglected in this country, the literacy problem is likely to continue," Taylor

adds. While researchers can't pinpoint reasons for the decline in silent reading efficiency from that of 50 years ago, it stands to reason that those students who engage in structured silent reading practice become more efficient readers and

take with them a love of books that lasts far past their high school graduation.

A student plans to use the attached text to write an argument paper about the need for increased reading instruction in school. Which three of the following sources would provide the best and most credible information she might also use?

Source 1: A chart showing the reading assessment scores of students in grades 2-12 over the past 25 years.

Source 2: A blog written by a 4th grade teacher about his experiences with student readers over his 15 year teaching career.

Source 3: A map showing the states with the lowest reading comprehension scores.

Source 4: A research paper about learning disabilities in early childhood.

Source 5: A study on the impact of budget cuts on classroom instruction.

Source 6: A newspaper article about the reading demands required by employers and their disappointment in the reading skills of the next generation of employees.

- A. sources 1, 2, and 6
- B. sources 1, 3, and 6
- C. sources 2, 5 and 6
- D. sources 3, 4, and 5

Correct Answer: A

QUESTION 14

Read the paragraph attached.

Teeth Grinding Can Be A Real Headache

Did you know that if you suffer from nagging headaches ?including migraines, tension headaches and behind-the-eye pain ?your teeth could be the root of your problem? Involuntary and excessive clenching and grinding of the teeth (known in medical terms as bruxism) is a common condition, so prevalent that it affects 1 in 5 adults in the U.S. And this number continues to increase. It's probably no surprise to learn that bruxism can result in significant tooth wear and enamel erosion, leading to tooth surface sensitivity, chipped and fractured teeth, as well as a host of other dental issues that may require expensive treatment. But, what you may not realize is that over 90 percent of bruxism sufferers also experience headache pain caused by their teeth grinding. If you think about it, the link between teeth and jaw clenching, and headaches caused by teeth grinding, makes a lot of sense. Because the jaw is capable of exerting more than 250 pounds of force when clenching, this amount of force can crack a walnut. This extreme tooth-on-tooth force helps explain tooth wear caused by teeth grinding and may also lead to temporomandibular joint (TMJ) pain and potential TMJ issues from teeth grinding. The temporomandibular joints are flexible joints found on each side of your head in front of the ear. Responsible for all jaw movements including eating and talking, they are the most active joints in your body and thus endure a lot of wear and tear. They connect the lower jaw to the temporal bone of the skull. Excessive teeth clenching and grinding, which generally occurs during sleep, puts pressure on these joints and as a result can cause far-reaching pain in your temples, behind the eyes, in the back of your neck and through your cheeks and ears. The exact cause of bruxism is not known, but it is widely believed that stress is a primary trigger and once the stressful event has passed, the clenching and grinding usually subsides. However, the amount of damage and tooth wear caused by teeth grinding that can be done within a brief period can be significant. That is why it is so important that you seek treatment once you realize you are a teeth grinder, not only to stop your nagging headache pain, but also to prevent any further damage to your teeth. While there is no medication currently available to treat bruxism, dental experts recommend

wearing a dental grind guard to protect the teeth from further damage and potentially help alleviate TMJ pain.

A student plans to use the attached passage as one source for his expository essay about possible sources of headaches. Which of these would be the best source of credible information he might look at to include in his research?

- A. a research study from a pharmaceutical company looking for FDA approval for one of its new headache medications
- B. an interview with a neurologist about the increase of patients reporting headaches related to work and family stress
- C. a biology textbook explaining the anatomy of the brain
- D. an essay about early dentistry written by a paleontologist who found evidence of dental work in human skeletons over 3000 years old

Correct Answer: B

QUESTION 15

Sarah took 8 tests in her history class. Her highest score was 94 and her lowest score was 82.

On the 9th test of the semester, she got a 96.

Using this information, how did her mean score change when the last test was included?

- A. It was unchanged
- B. It cannot be determined from the given information
- C. It increased.
- D. It decreased.

Correct Answer: C

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