

# Admission-Tests

## Exam Questions GRE

GRE General Test



### NEW QUESTION 1

CORRECT TEXT - (Topic 1)

The following appeared in a letter from the owner of the Sunnyside Towers apartment complex to its manager.

"Last week, all the showerheads in the first three buildings of the Sunnyside Towers complex were modified to restrict maximum water flow to one-third of what it used to be. Although actual readings of water usage before and after the adjustment are not yet available, the change will obviously result in a considerable savings for Sunnyside Corporation, since the corporation must pay for water each month. Except for a few complaints about low water pressure, no problems with showers have been reported since the adjustment. Clearly, modifying showerheads to restrict water flow throughout all twelve buildings in the Sunnyside Towers complex will increase our profits further."

Write a response in which you examine the stated and or unstated assumptions of the argument. Be sure to explain how the argument depends on these assumptions and what the implications are for the argument if the assumptions prove unwarranted.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

The given letter is from the owner of the Sunny side apartment complex to the manager of the buildings and it is regarding the replacement of the showerheads in the buildings and the statement is made making an assumption that in the future there would be more profit if they make the same changes to more profits.

The owner has stated bis perspective by taking into account a generalized view point and also given the lack of evidentiary values creates a dearth and paucity in the statements made by the owner. The weakness in the statement is purely created due to the general assumption of the owner and not based on the data or substantial evidence of the observation made in the changes in the building.

The Drawbacks have been mentioned by the owner but they have not been considered seriously as negative possibilities that might cause them future expenses. The other important aspect is the lack of the consideration given to the various factors. The owners statement are primarily focused on the profits and they negate all other aspects such as the water pressure and the exact data which he clearly states is unavailable till now.

[Without considering the exact usage of the water based on the number of people who are using, the exact number of shower heads, the total amount of water consumed. the average supply of water in the building, the totla profit that they might make, the overheads cost and the cost of installation of the new shower heads all need to stipulated and then considered on a serious note before they proceed with the changes.

The owner needs to conduct a proer study of the data rather than making a hyperbolic assumption that they would meet profits, given that there is not guarantee for the same.

It is essential for the statement to also consider the extent of profit that they could make (brought the proposed change.

To conclude, it is essential for the statement postulated in the letter to consider more comprehensive aspects before arriving at the conclusion that would only undermine and weaken the perspective of the given letter.

### NEW QUESTION 2

CORRECT TEXT - (Topic 1)

The following appeared in a memo from the president of Bower Builders, a company that constructs new homes.

"A nationwide survey reveals that the two most-desired home features are a large family room and a large, well-appointed kitchen. A number of homes in our area built by our competitor Domus Construction have such features and have sold much faster and at significantly higher prices than the national average. To boost sales and profits, we should increase the size of the family rooms and kitchens in all the homes we build and should make state-of-the-art kitchens a standard feature. Moreover, our larger family rooms and kitchens can come at the expense of the dining room, since many of our recent buyers say they do not need a separate dining room for family meals."

Write a response in which you examine the stated and or unstated assumptions of the argument. Be sure to explain how the argument depends on these assumptions and what the implications are for the argument if the assumptions prove unwarranted.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

The memo discusses in detail about the statement s made in order to suppose a suggestion that might get more profits for the firm. It is essential that the statements need to be supported by proper data and facts. The given statement is unsupported and is built upon a basic premise of an expected possibility in the future. The memo states that a change in the manner or pattern in which the house is built will probably be helpful for the company to improve its nature and also profit.

The company believes that they would be able to improve the profit by replacing the dining room space with more space for living room and kitchen, they also focus on state of the art kitchen facilities. It is impertaive that the company states the various assumptions and the basis on which these assumptions would be stated. The company has failed to show and prove any given data or fact that ought of lead to the evidence that there might be possible increase in the profits.

The preferential choices of the people have also not been stated any where in the passage. The random generalization only weaknes and undermiens the statement. the statement has to be supported with survey from the people or the purchasers which might provide better insights to the given statements.

It is essential for the company to consider the other factors and look into the sales for the holistic perpoective rather that from a profit oriented angle.

The type of assumptions made in the memo are subjective and inclined towards a great extent. which might be flawed in the event of not proving any lsubstantial evidences.

To conclude. I think that it is essential for the company to substantiate the views and assumptions with better data and facts, failing which it would remain to be flawed. Any assumptions needs to be places on valid and reasonable ideas without which the core of the premise would hold no good.

### NEW QUESTION 3

- (Topic 2)

Flavor	Number
Caramel	1
Orange cream	2
Vanilla	4
Cherry	5

A)

$$\frac{5}{12}$$

B)

$$\frac{5}{22}$$

C)

$$\frac{5}{24}$$

D)

$$\frac{5}{33}$$

E)

$$\frac{5}{66}$$

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

**Answer:** E

**NEW QUESTION 4**

- (Topic 2)  
Exhibit.

List  $S$ :  $0, x, x^2$

$x$  is a positive number.

The median of the numbers in  $S$  is greater than the average (arithmetic mean) of the numbers in  $S$ .

Quantity A

$x$

Quantity B

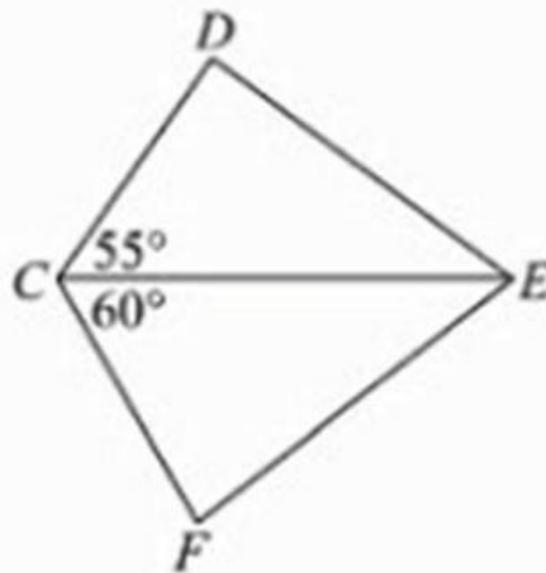
2

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

Answer: B

**NEW QUESTION 5**

- (Topic 2)  
Exhibit.



$CD = CF$

Quantity A

$DE$

Quantity B

$EF$

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

Answer: D

**NEW QUESTION 6**

- (Topic 2)  
Exhibit

The least of five consecutive odd integers is  $x - 3$ .

Quantity A

The greatest of the five integers

Quantity B

$x + 3$

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

Answer: A

**NEW QUESTION 7**

- (Topic 2)

Last month, the total amount of money that a candy manufacturer paid a certain salesperson consisted of a base salary of \$400 plus a commission of 20 percent of that portion of the salesperson's total sales that was greater than \$1,000. The salesperson had total sales of \$2,200 last month.

Quantity A

The total amount of money that the candy manufacturer paid the salesperson last month

Quantity B

\$840

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

Answer: B

**NEW QUESTION 8**

- (Topic 2)

$$\begin{aligned} x &\geq 9 \\ y &\geq 5 \end{aligned}$$

Quantity A

$$x^2 - y^2$$

Quantity B

54

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

Answer: D

**NEW QUESTION 9**

- (Topic 2)

-5, -3, -1, 0, 10, 20

How many different sums can be obtained by adding two different numbers from the list shown?

- A. 11
- B. 12
- C. 13

D. 14

Answer: D

**NEW QUESTION 10**

- (Topic 2)

In the xy-plane, line K passes through points (-2, 6) and (4,3). What is the y-intercept of line K ?

- A. 4.0
- B. 4.5
- C. 5.0
- D. 5.2
- E. 5.5

Answer: C

**NEW QUESTION 10**

- (Topic 2)

$s = |t - 2|$

<p><u>Quantity A</u></p> <p><math>s + 2</math></p>	<p><u>Quantity B</u></p> <p><math> t </math></p>
----------------------------------------------------	--------------------------------------------------

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

Answer: D

**NEW QUESTION 14**

- (Topic 2)

<p><u>Quantity A</u></p> <p>The standard deviation of 1, 1, 1, and 1</p>	<p><u>Quantity B</u></p> <p>The standard deviation of 0, 2, 0, and 2</p>
--------------------------------------------------------------------------	--------------------------------------------------------------------------

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

Answer: B

**NEW QUESTION 18**

- (Topic 2)

How much more is 20 percent of x than

$\frac{1}{5}$

of 1 percent of x?

A.

$\frac{x}{19.8}$

B 0.18x

- B. 0.192x
- C. 0.198x

D. 0.19.8x

Answer: D

**NEW QUESTION 19**

- (Topic 2)

The area of square  $S$  is twice the area of square  $T$ .

Quantity A

Quantity B

The length of a diagonal of square  $T$

The length of a side of square  $S$

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

Answer: C

**NEW QUESTION 20**

- (Topic 2)

### Annual Budget of the Alden Family in Year $X$

Category	Amount
Housing	\$7,600
Food	4,000
Transportation	4,400
Clothing	3,600
Medical services	3,800
Insurance	6,400
Entertainment	2,800
Vacation	4,400
Savings	3,000
<b>Total</b>	<b>\$40,000</b>

In each of the years after year A", the Alden family budgeted \$200 more for savings than it budgeted for savings the previous year. What is the total amount that the Alden family budgeted for savings over the 10 years beginning with year A"?

- A. \$30,000
- B. \$32,000
- C. \$36,000
- D. \$39,000
- E. \$42,000

Answer: C

**NEW QUESTION 24**

CORRECT TEXT - (Topic 2)

The average (arithmetic mean) of a set of  $n$  test scores is 70. If a new score of 90 is added to the set, the average of the set of scores will be 72. What is the value of  $w$ ?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

9

**NEW QUESTION 26**

- (Topic 2)

A group of children is divided into  $r$  teams of  $\sim$  players each, and 1 team of 10 players. The group has more than 30 but less than 50 children, and each child belongs to only one team.

<u>Quantity A</u>	<u>Quantity B</u>
The number of children in the group	38

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

Answer: D

**NEW QUESTION 27**

- (Topic 2)

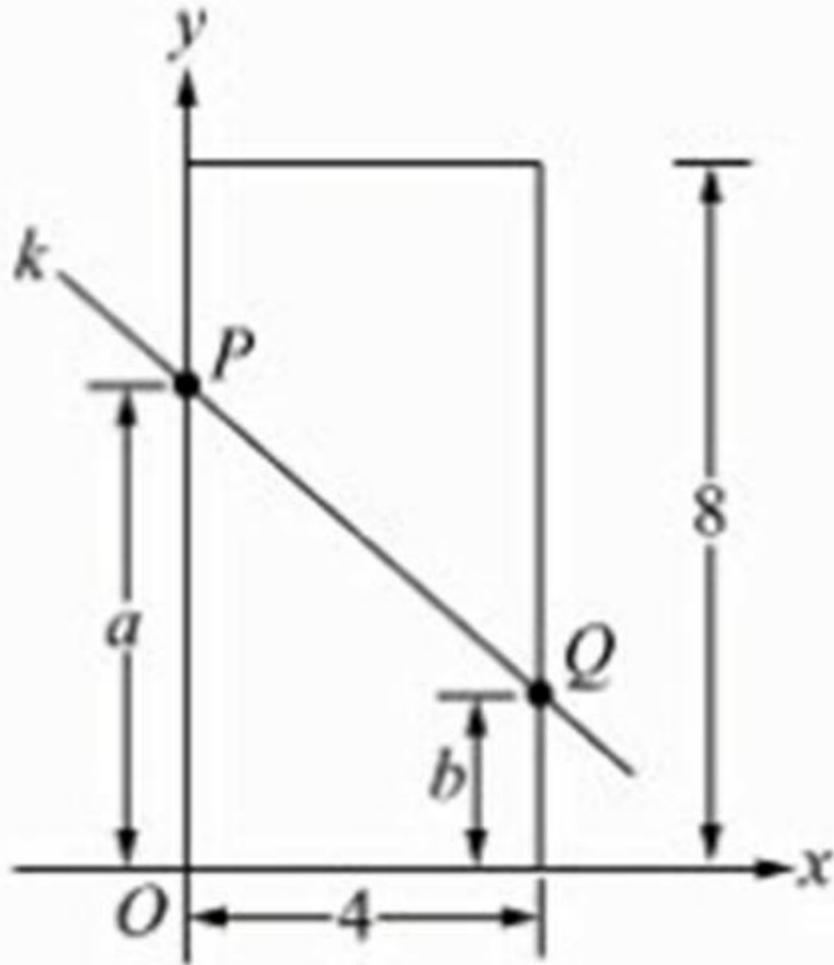
$y + 5 > x$	
<u>Quantity A</u>	<u>Quantity B</u>
$y + 2$	$x - 2$

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

Answer: D

**NEW QUESTION 32**

- (Topic 2)



In the  $xy$ -plane, line  $k$  intersects the rectangle shown at points  $P$  and  $Q$ . Which of the following represents the slope of line  $k$  ?

A)

$$\frac{4}{b - a}$$

B)

$$\frac{8 - a}{a}$$

C)

$$\frac{b - 8}{4}$$

D)

$$\frac{b - a}{4}$$

E)

$$\frac{a - b}{b}$$

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

Answer: D

**NEW QUESTION 33**

- (Topic 2)

In triangle ABC, AB = 9 and BC = 12- Which of the following values could be the perimeter of triangle ABC? Indicate all such values.

- A. 21
- B. 25
- C. 28
- D. 36
- E. 43
- F. 47

Answer: BCD

**NEW QUESTION 35**

- (Topic 2)

The reciprocal of  $n$  equals 8 times the square of  $n$ .

Quantity A

$$\frac{1}{n}$$

Quantity B

$$2$$

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

Answer: C

**NEW QUESTION 36**

CORRECT TEXT - (Topic 2)

In a sequence of 300 numbers, the first number is 3, the second is 5, and each succeeding number is equal to the sum of the previous two numbers in the sequence. If a number is to be randomly selected from the sequence, what is the probability that the number selected will be odd?

A)

$$\frac{1}{3}$$

B)

$$\frac{1}{2}$$

C)

$$\frac{2}{3}$$

D)

$$\frac{3}{4}$$

E)

$$\frac{4}{5}$$

A.

Answer: C

**NEW QUESTION 39**

- (Topic 2)

For the five days shown, the median daily number of television viewers, in millions, was closest to which of the following?

- A. 78
- B. 79
- C. 80
- D. 82
- E. 85

Answer: D

**NEW QUESTION 41**

- (Topic 2)

An integer  $x$  is to be randomly selected from the set  $\{2, 3, 4, 5, 6, 7, 8\}$ .

Quantity A

The probability that the units digit of  $x^3$  will equal  $x$

Quantity B

$$\frac{2}{7}$$

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.

D. The relationship cannot be determined from the information given.

Answer: A

**NEW QUESTION 44**

- (Topic 2)

$n$  is an integer, and  $k$  is not an integer.

$$0 < k < n < k + 2$$

Quantity A

$$n$$

Quantity B

$$k + 1$$

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

Answer: D

**NEW QUESTION 47**

CORRECT TEXT - (Topic 2)

The sales tax on clothing items in Country A is 25 percent of the purchase price of the item, and the sales tax on clothing items in Country B is 20 percent of the purchase price of the item. If the two countries have the same currency and if the price of a certain clothing item is the same in both countries, what percent greater is the amount of sales tax on the clothing item purchased in Country A than the amount of sales tax on the clothing item purchased in Country B ?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

25%

**NEW QUESTION 49**

- (Topic 2)

Exhibit.

$$0 < a < b < c < 1$$

Quantity A

$$a(b + c)$$

Quantity B

$$b(c + a)$$

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

Answer: B

**NEW QUESTION 50**

- (Topic 2)

Exhibit.

$S$  is the set of all products  $xy$  such that  $-4 \leq x \leq 5$  and  $-3 \leq y \leq 2$ .

Quantity A

Quantity B

The minimum value in set  $S$

$-8$

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

Answer: B

**NEW QUESTION 52**

- (Topic 2)

An investor purchased two properties, A and B. The investor later sold property A at a selling price that was 20 percent more than the purchase price of A, and the investor sold property B at a selling price that was 40 percent less than the purchase price of B. If the combined purchase price of properties A and B was \$200,000 and the combined selling price was \$210,000, what was the selling price of property A ?

- A. \$160,000
- B. \$170,000
- C. \$180,000
- D. \$190,000
- E. \$200,000

Answer: C

**NEW QUESTION 56**

- (Topic 2)

In the  $xy$ -plane, line  $\ell$  has  $x$ -intercept 3 and  $y$ -intercept 4, and line  $m$  has  $x$ -intercept 4 and  $y$ -intercept 3.

Quantity A

Quantity B

The slope of line  $\ell$

The slope of line  $m$

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

Answer: B

**NEW QUESTION 59**

- (Topic 2)

$a > 0$  and  $0 < b < 1$

Quantity A

Quantity B

$a^2$

$ab$

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

Answer: D

**NEW QUESTION 62**

- (Topic 2)

For all numbers  $a$  and  $b$ , the operations  $\square$  and  $\triangle$  are defined by

$$a \square b = a^2 - b^2$$

$$a \triangle b = a^2 + b^2$$

Quantity A

$$(2 \square -2) \triangle (3 \square 3)$$

Quantity B

$$0$$

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

Answer: C

**NEW QUESTION 65**

- (Topic 2)

In a survey of 150 computer owners, 98 owned a printer. 72 owned a digital camera, and all of them owned either a printer or a digital camera or both.

Quantity A

The number of computer owners in the survey who owned a printer but did not own a digital camera

Quantity B

78

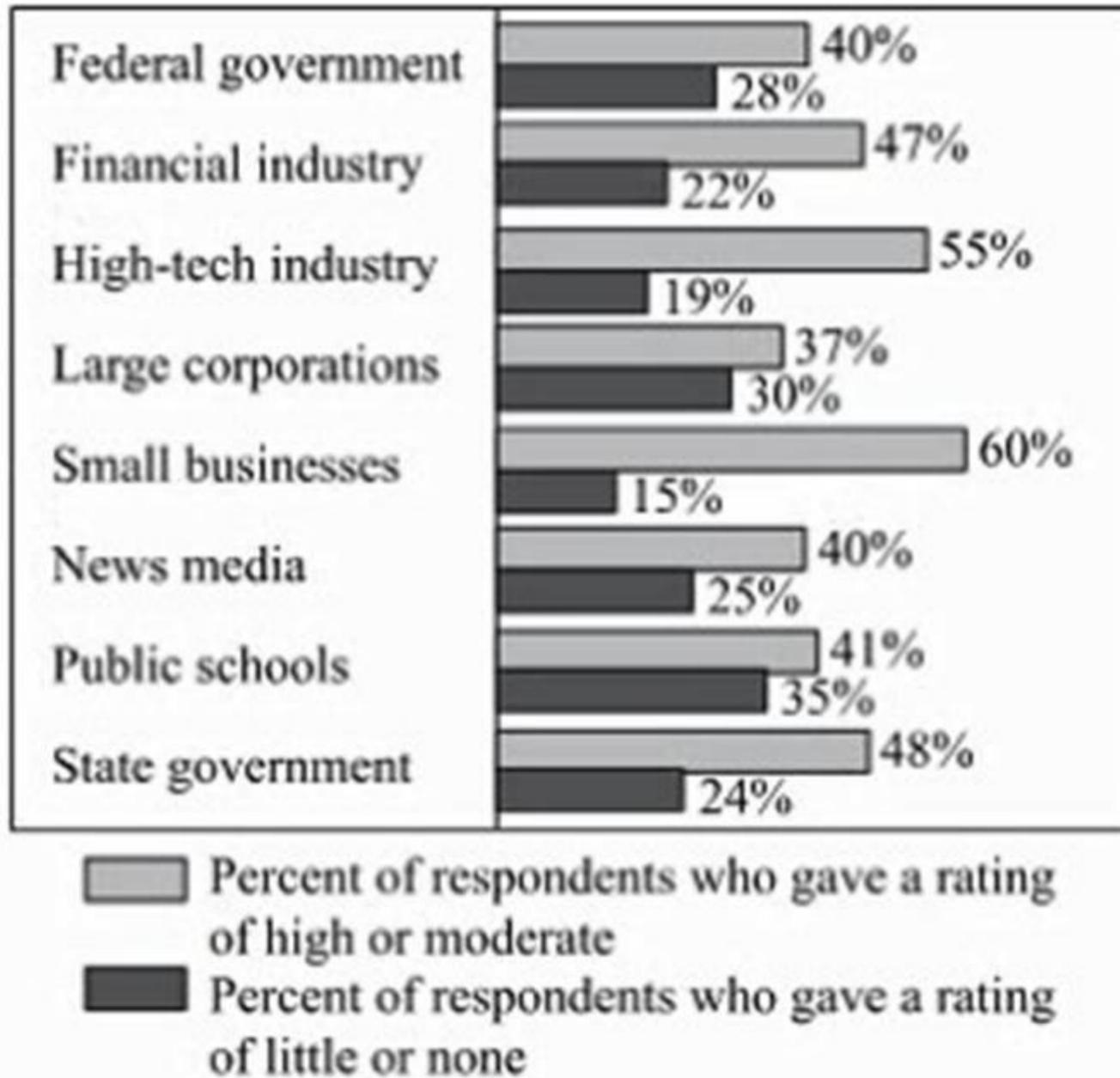
- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Answer: C

**NEW QUESTION 66**

- (Topic 2)

The graph summarizes the responses from 4,500 respondents who rated their degree of confidence in each of eight United States institutions. Each respondent gave each institution one of five confidence ratings: high, moderate, little, none, or undecided.



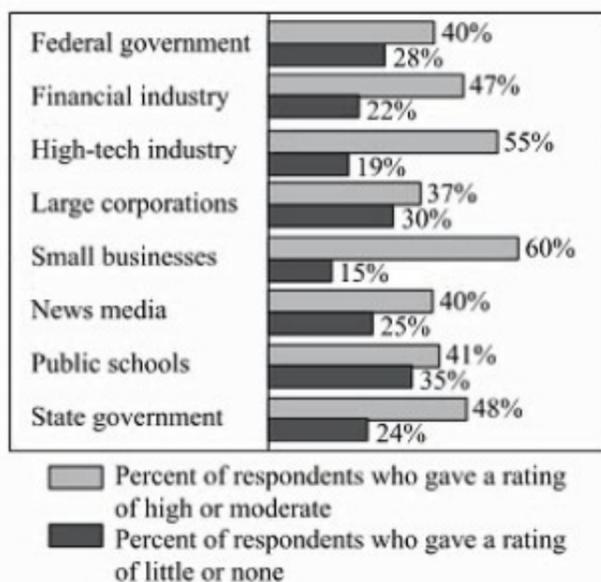
If 20 percent of the respondents rated both their degree of confidence in the federal government and their degree of confidence in the news media high or moderate, what percent of the respondents gave neither of these institutions a confidence rating of high or moderate?

- A. 35%
- B. 40%
- C. 45%
- D. 50%
- E. 55%

**Answer:** B

**Explanation:**

The graph summarizes the responses from 4,500 respondents who rated their degree of confidence in each of eight United States institutions. Each respondent gave each institution one of five confidence ratings: high, moderate, little, none, or undecided.



**NEW QUESTION 69**

- (Topic 2)

$n$  is a positive integer.  
 $x$  is the units digit of  $7^n$ .  
 $y$  is the units digit of  $3^n$ .

Quantity A

$$|x - y|$$

Quantity B

3

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

Answer: D

**NEW QUESTION 73**

CORRECT TEXT - (Topic 2)

If the ratio of positive integer  $x$  to positive integer  $y$  is 4 to 3, then  $x + y$  must be a multiple of integer  $k$ , where  $k > 1$ . What is the value of  $k$ ?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

$K=7$

**NEW QUESTION 78**

- (Topic 2)

For a certain type of can, the number of grams of aluminum per can decreased by 20 percent from 1994 to 1998, while the cost per gram of aluminum decreased by 60 percent. If the cost of the aluminum in  $y$  cans in 1994 was equal to the cost of aluminum in  $A$   $v$  cans in 1998, then  $k =$

- A. 3.125
- B. 4.25
- C. 5.125
- D. 6.25
- E. 7.875

Answer: A

**NEW QUESTION 81**

- (Topic 2)

At a factory, 6 machines work independently at the same constant rate to produce certain parts. If 5 of the machines, working simultaneously at this rate, produce a total of 200 such parts in 4 days, how many days will it take all 6 machines, working simultaneously at this rate, to produce a total of 300 such parts?

- A. 4.0
- B. 4.5
- C. 5.0
- D. 5.5
- E. 6.0

Answer: C

**NEW QUESTION 86**

CORRECT TEXT - (Topic 2)

As a part of an environmental study of a river, a random sample of trout was drawn from the river and the lengths of the trout were recorded. The average (arithmetic mean) length was 14.31 inches. If a length of 16.59 inches was 1.50 standard deviations above the average, what was the standard deviation of the lengths of the trout in the sample?

- A. Mastered
- B. Not Mastered

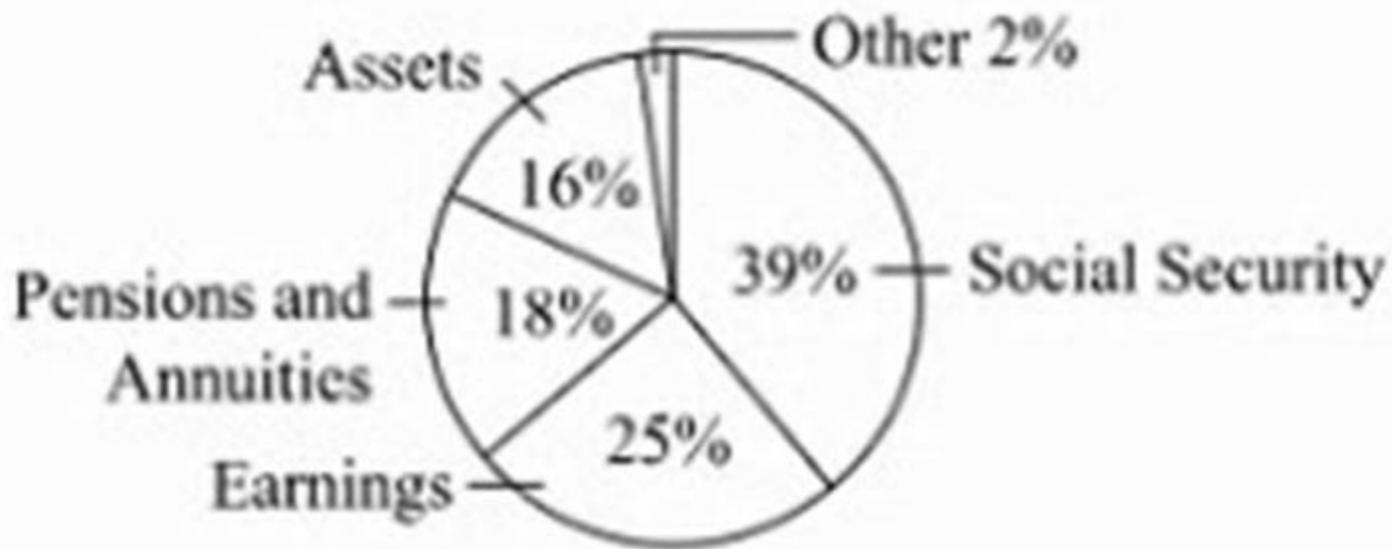
Answer: A

**Explanation:**

\* 1.72 inches

**NEW QUESTION 90**

- (Topic 2)  
 Exhibit.



Greg's income last year was \$45,000. The graph above shows the distribution of his income, by income source. Based on the information given, which of the following statements about his income last year are true? Indicate all such statements.

- A. His income from earnings was \$11,250.
- B. More than j of his income was from assets and earnings combined.
- C. His income from social security was 56 percent greater than his income from earnings.

**Answer:** ABC

**NEW QUESTION 94**

- (Topic 2)  
 For which of the following values of v must  $x^v \cdot x$  be divisible by 10? Indicate all such values.

- A. 480
- B. 481
- C. 482
- D. 483
- E. 484
- F. 485
- G. 486
- H. 487

**Answer:** ABEFG

**NEW QUESTION 98**

- (Topic 2)

$$x + z = y - 1 \text{ and } y - z = 3x$$

Quantity A

$x$

Quantity B

$\frac{1}{2}$

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

**Answer:** C

**NEW QUESTION 102**

- (Topic 2)  
 Exhibit.

Quantity A

$$(-87)^8$$

Quantity B

$$\left(\frac{1}{87}\right)^{-8}$$

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

**Answer: C**

**NEW QUESTION 103**

- (Topic 2)

For the 3 days shown with the greatest daily number of television viewers, approximately what was the average (arithmetic mean) daily number of television viewers who watched Show XI

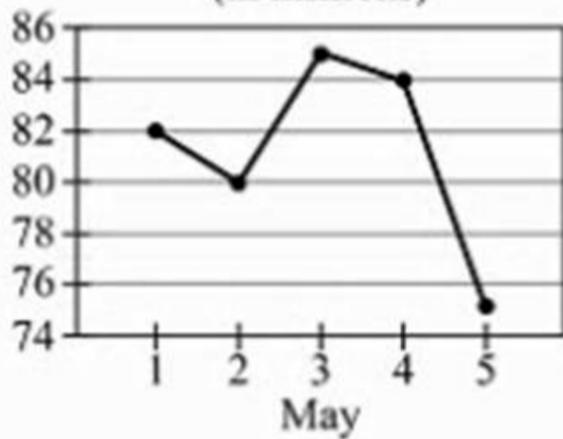
- A. 16 million
- B. 20 million
- C. 23 million
- D. 25 million
- E. 27 million

**Answer: C**

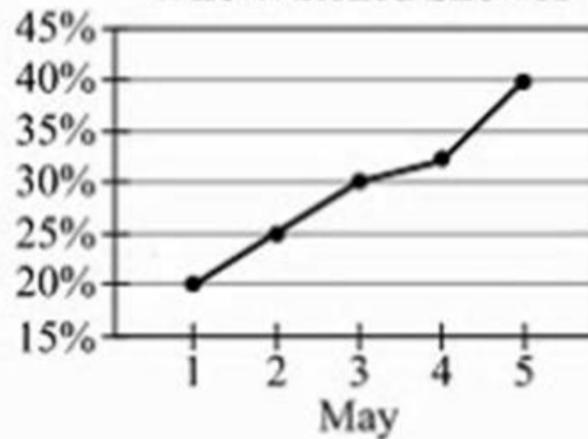
**Explanation:**

**Television Viewing From May 1 to May 5**

**Daily Number of Television Viewers**  
(in millions)



**Percent of Daily Television Viewers Who Watched Show X**



**NEW QUESTION 105**

- (Topic 2)

Exhibit.

Mineral	Amount (milligrams)	Recommended Dietary Allowance (milligrams)
Calcium	6	1,000
Iron	0.12	18
Magnesium	5	420
Phosphorus	11	700
Sodium	1	1,500
Zinc	0.04	11

For selected minerals, the table shows the mineral content in an apple that weighs 100 grams and also shows the recommended daily allowance of the minerals. For which of the following minerals is the total amount of the mineral contained in 5 such apples greater than 4 percent of the recommended dietary allowance of

the mineral?  
 Indicate all such minerals.

- A. Calcium
- B. Magnesium
- C. Sodium
- D. Zinc

Answer: B

**NEW QUESTION 108**

- (Topic 2)

The average (arithmetic mean) of 6,  $y$ , and  $z$  is 0.

Quantity A

Quantity B

The average of  $y$  and  $z$

-3

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

Answer: C

**NEW QUESTION 109**

- (Topic 2)

The sides of triangle  $T$  all have different lengths.

Quantity A

Quantity B

Twice the length of the longest side of  $T$

The perimeter of  $T$

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

Answer: B

**NEW QUESTION 114**

- (Topic 2)

Exhibit.

$$\frac{13}{x} = p \text{ and } \frac{13}{y} = m, \text{ where } p \text{ and } m \text{ are integers and } 0 < p < m.$$

Quantity A

Quantity B

$x$

$y$

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

Answer: A

**NEW QUESTION 119**

- (Topic 2)

A car service charges \$5 for the first mile of a trip and \$2 for each additional mile or part thereof. If the car service charges \$101 for an  $n$ -mile trip, where  $n$  is an integer, what is the value of  $n$  ?

- A. 47

- B. 48
- C. 49
- D. 50
- E. 51

Answer: B

**NEW QUESTION 124**

- (Topic 2)

<p><u>Quantity A</u></p> <p><math>(24 - 25)^{50}</math></p>	<p><u>Quantity B</u></p> <p><math>(77 - 76)^{-30}</math></p>
-------------------------------------------------------------	--------------------------------------------------------------

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

Answer: C

**NEW QUESTION 129**

- (Topic 2)

An exercise ball is made from soft elastic that has uniform thickness of 2 millimeters, and the interior of the ball is filled with air. The ball is in the shape of a sphere and has an exterior diameter of 65 centimeters. What is the radius of the interior of the ball, in millimeters?

- A. 323
- B. 324
- C. 325
- D. 646
- E. 648

Answer: A

**NEW QUESTION 132**

- (Topic 2)

A rancher is planning to build an enclosed pen for horses on level ground. The pen will be rectangular with a length that is 2 times the width. If the perimeter of the pen will be P meters, which of the following represents the area, in square meters, of the pen in terms of P ?

A)

$$4P^2$$

B)

$$2P^2 + P$$

C)

$$\frac{P^2}{6}$$

D)

$$\frac{P^2 + 2P}{12}$$

E

$$\frac{P^2}{18}$$

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

Answer: D

**NEW QUESTION 136**

- (Topic 2)

$xy > 0$	
<u>Quantity A</u>	<u>Quantity B</u>
$x^4y^3$	0

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

Answer: D

**NEW QUESTION 138**

- (Topic 2)

$a > 2$	
<u>Quantity A</u>	<u>Quantity B</u>
$a^{21} - a^{20}$	$a^{20}$

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

Answer: A

**NEW QUESTION 142**

- (Topic 2)

A circle is inscribed in a regular hexagon that is inscribed in a circle. What is the ratio of the area of the smaller circle to the area of the larger circle?

A)

$$\frac{1}{2}$$

B)

$$\frac{\sqrt{2}}{2}$$

C)

$$\frac{3}{4}$$

D)

$$\frac{\sqrt{3}}{2}$$

E)

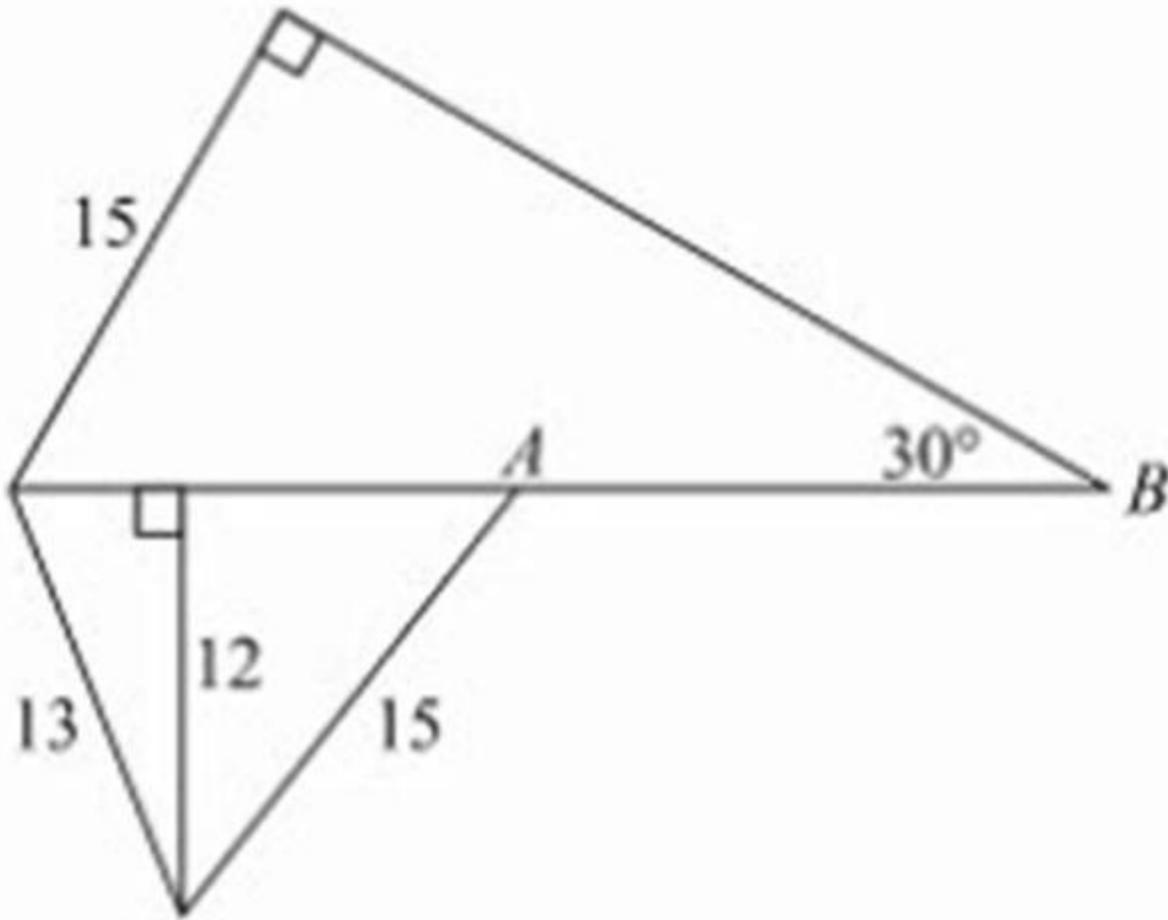
$$\frac{\sqrt{3}}{\sqrt{2}}$$

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

Answer: C

**NEW QUESTION 145**

- (Topic 2)



In the figure above, what is the length of AB?

- A. 15
- B. 16
- C. 17
- D. 18
- E. 19

Answer: B

**NEW QUESTION 149**

- (Topic 2)

$$(x - y)^2 = x^2 + y^2$$

Quantity A

$xy$

Quantity B

1

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

Answer: B

**NEW QUESTION 154**

- (Topic 2)

$$A = \{x, y, z\}$$

$$B = \left\{ \frac{x+y}{2}, \frac{x+z}{2}, \frac{y+z}{2} \right\}$$

In sets A and B shown,  $l < v < y < z$ . Which of the following statement is about .1 and H must be true? Indicate all such statements.

- A. The average (arithmetic mean) of the numbers in A is equal to the average of the numbers in B.
- B. The median of the numbers in A is equal to the median of the numbers in B.
- C. The range of the numbers in A is greater than the range of the numbers in B.

**Answer:** A

**NEW QUESTION 158**

CORRECT TEXT - (Topic 2)

At a certain high school, 90 percent of seniors who take physics also take calculus and 60 percent of seniors who take calculus also take physics. If 30 percent of seniors at the school take physics, what percent of seniors take calculus?

 %

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

45%

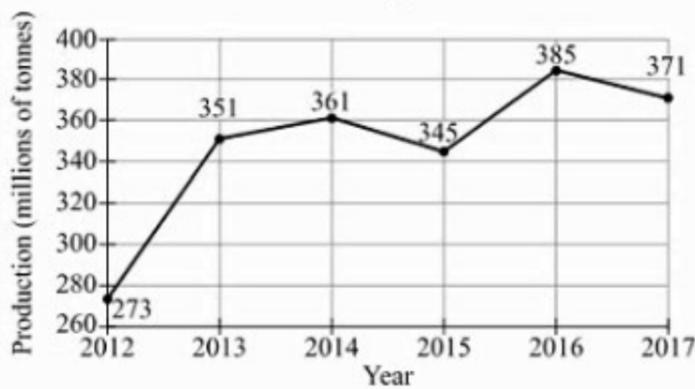
**NEW QUESTION 160**

- (Topic 2)

Exhibit.

**Maize Production and Uses in the United States**

**Annual Production, 2012–2017**



Note: 1 tonne = 1,000 kilograms.

**Uses, 2017**

Use	Percent of Production
Feed	39%
Ethanol and fuel	27%
Exports	16%
Food and industrial use	9%
Residual	9%

In 2017, if 19 percent of the maize production that was used for feed was used for dairy cows, approximately how many tonnes of the maize production was feed used for dairy cows'1

- A. 27 million
- B. 70 million
- C. 145 million
- D. 181 million
- E. 215 million

Answer: A

**NEW QUESTION 162**

- (Topic 2)

The average (arithmetic mean) of  $x$ ,  $y$ , and  $z$  is 80, and the average of  $x$ ,  $y$ ,  $z$ , and  $w$  is 83.

<u>Quantity A</u>	<u>Quantity B</u>
The average of $x$ , $y$ , and $w$	84

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

Answer: D

**NEW QUESTION 165**

- (Topic 2)

Stations A, M, and B are located along a certain train route, and Station M is between Stations A and B. At noon, a train engine passed Station A traveling at a constant speed of 50 kilometers per hour toward Station B. Also at noon, another train engine passed Station B traveling at a constant speed of 60 kilometers per hour toward Station A. Both train engines passed Station M at the same time. What is the ratio of the distance along the route between Stations A and M to the distance along the route between Stations A and B?

A)

$$\frac{1}{4}$$

B)

$$\frac{3}{7}$$

C)

$$\frac{1}{2}$$

D)

$$\frac{4}{7}$$

E)

3  
—  
4

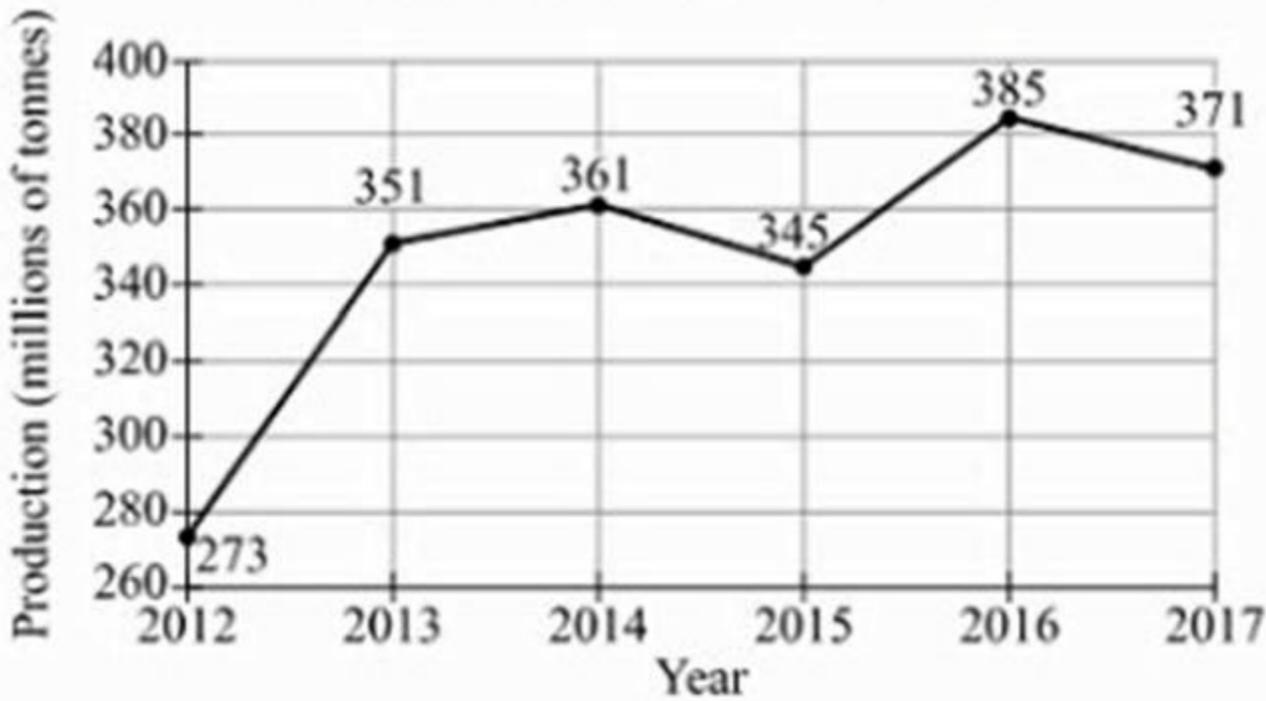
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

**Answer:** D

**NEW QUESTION 170**  
 CORRECT TEXT - (Topic 2)  
 Exhibit.

**Maize Production and Uses in the United States**

**Annual Production, 2012–2017**



Note: 1 tonne = 1,000 kilograms.

**Uses, 2017**

Use	Percent of Production
Feed	39%
Ethanol and fuel	27%
Exports	16%
Food and industrial use	9%
Residual	9%

For the years shown, the greatest annual maize production was what percent greater than the median annual maize production?  
 Give your answer to the nearest whole percent.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
 8%

**NEW QUESTION 174**

- (Topic 2)

If a set  $S$  has a total of 6 subsets that consist of 2 members each, then  $S$  consists of how many members?

- A. Three
- B. Four
- C. Five
- D. Six
- E. Seven

**Answer:** A

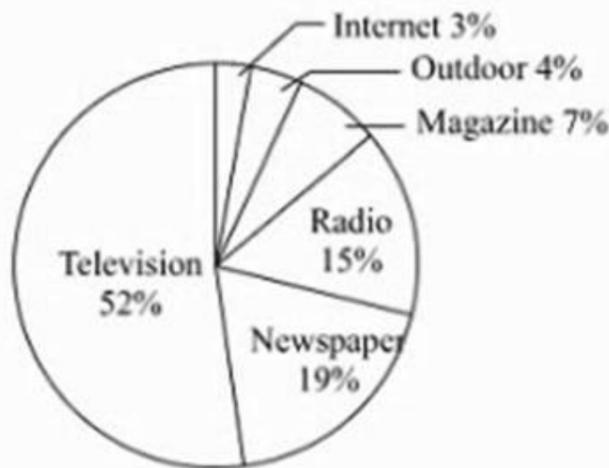
**NEW QUESTION 178**

- (Topic 2)

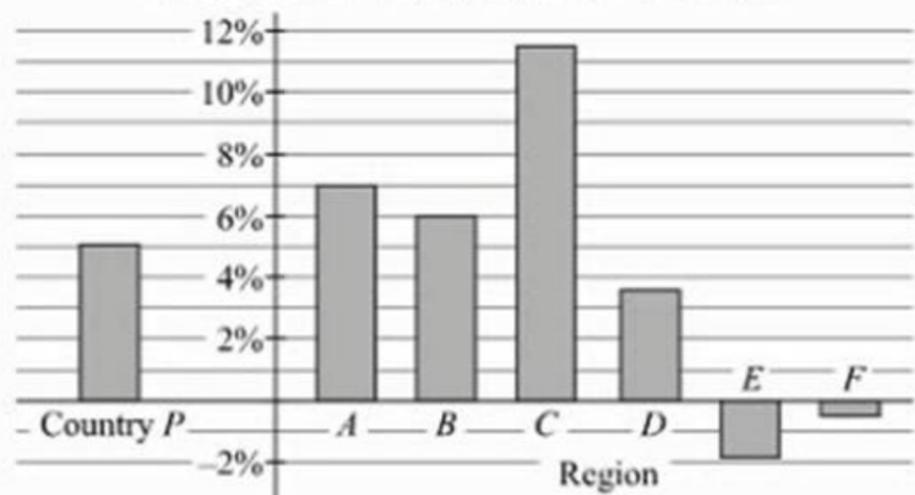
**Amount Spent on Advertising in Country P in 2013**

(Total amount spent: \$952 million)

**Distribution of Amount Spent on Advertising, by Media Type**



**Percent Change in Amount Spent on Advertising from 2012 to 2013, by Region of Country P**



Region A accounted for

$\frac{1}{8}$

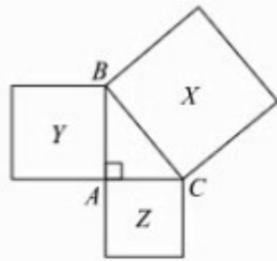
of the amount spent on advertising in Country P in 2013. and the percent spent on television advertising in Region A in 2012 was the same as the percent spent on television advertising in Country P in 2013. Approximately how much was spent on television advertising in Region A in 2012?

- A. \$58 million
- B. \$62 million
- C. \$66 million
- D. \$70 million
- E. \$74 million

**Answer:** A

**NEW QUESTION 181**

- (Topic 2)



In the figure,  $X$ ,  $Y$ , and  $Z$  are squares.

Quantity A

The sum of the areas of  $Y$  and  $Z$

Quantity B

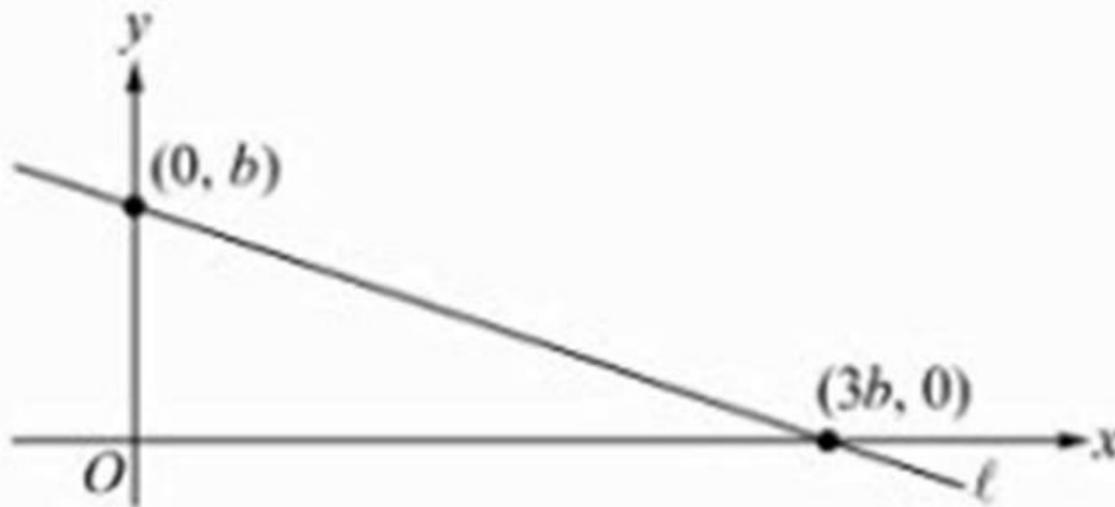
The area of  $X$

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

**Answer: C**

**NEW QUESTION 184**

- (Topic 2)  
Exhibit



Quantity A

The slope of line  $\ell$

Quantity B

$$-\frac{1}{2}$$

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

**Answer: A**

**NEW QUESTION 186**

- (Topic 2)

The volume of a red container is 3 times the volume of a green container. What fraction of the volume of the green container is equal to

$$\frac{1}{12}$$

of the volume

of the red container?  
A)

$\frac{1}{36}$

B)

$\frac{1}{12}$

C)

$\frac{1}{4}$

D)

$\frac{1}{3}$

E)

$\frac{1}{2}$

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

Answer: C

**NEW QUESTION 188**

- (Topic 2)

The solutions of the equation  $2y^2 + 5y = 3$  are  $\frac{1}{2}$  and  $-3$ . What are the solutions of the equation  $2(x - 2)^2 + 5(x - 2) = 3$ ?

A)

$\frac{5}{2}$  and  $-1$

B)

$\frac{3}{2}$  and 5

C)

$\frac{1}{4}$  and  $-\frac{3}{4}$

D)

$-\frac{3}{2}$  and -5

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

Answer: A

**NEW QUESTION 192**

- (Topic 2)



The circle graph above shows the results of a survey conducted at a high school in which each student was asked to name one favorite sport, if any. Of the students who named a favorite sport, what percent of students named either baseball or hockey?

- A. 15.75%
- B. 21%
- C. 28%
- D. 31.5%
- E. 42%

Answer: C

**NEW QUESTION 197**

- (Topic 2)

Chloe spent a total of  $x$  dollars last August on clothes, transportation, and college textbooks. She spent 23 percent of the total on college textbooks, of which 13 percent was spent on her college mathematics textbook. Chloe spent a total of \$450 on the college textbooks that were not her college mathematics textbook. Which of the following is closest to the value of  $x$  ?

- A. 1250
- B. 1,500
- C. 1,750
- D. 2,000
- E. 2,250

**Answer: D**

**NEW QUESTION 198**

- (Topic 2)

Dunne a certain month. 20 percent of all the electricity used by a household was used by the water heater. The cost per kilowatt-hour of the electricity used by the water heater was half the cost per kilowatt-hour of the rest of the electricity used. For that month, the cost of the electricity used by the water heater was what fraction of the cost of the electricity used by the household?

A)

$$\frac{1}{20}$$

B)

$$\frac{1}{9}$$

C)

$$\frac{1}{8}$$

D)

$$\frac{1}{3}$$

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

**Answer: B**

**NEW QUESTION 201**

- (Topic 2)

In a competition, a certain contestant scored either 2 points or 4 points in each round of the competition. This contestant's average (arithmetic mean) score for the entire competition was 3.8 points per round.

Quantity A

9 times the number of rounds in which the contestant scored 2 points

Quantity B

The number of rounds in which the contestant scored 4 points

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

**Answer: C**

**NEW QUESTION 203**

- (Topic 2)

$$(3.8 \times 6^{25}) - (0.24 \times 6^{26}) =$$

A)

$$2.36 \times 6^{25}$$

B)

$$2.36 \times 6^{26}$$

C)

$$3.56 \times 6^{25}$$

D)

$$3.56 \times 6^{26}$$

E)

$$3.76 \times 6^{25}$$

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

**Answer:** A

**NEW QUESTION 208**

- (Topic 2)

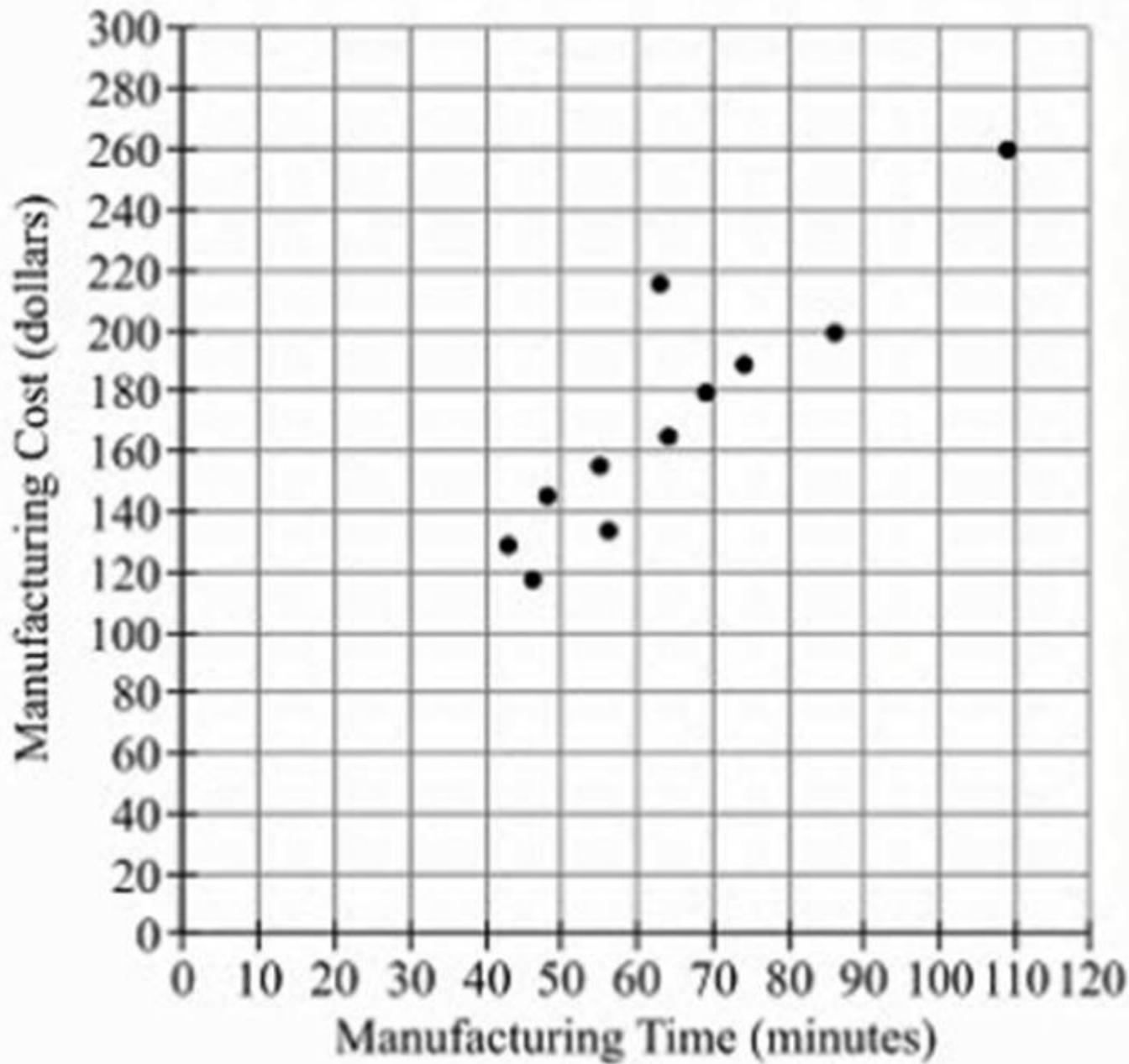
For each item, a manager calculates the ratio of the manufacturing cost to the manufacturing time. Which of the following is closest to the value of the greatest of these eleven ratios, in dollars per minute?

- A. 2.5
- B. 3.5
- C. 4.0
- D. 4.5
- E. 5.0

**Answer:** B

**Explanation:**

### Manufacturing Cost and Time for 11 Pottery Items from Company *W*



**NEW QUESTION 211**

- (Topic 2)

A rectangular floor will be completely covered with square tiles, each of which has sides of length 6 inches. If tiles are laid side by side with no space between them and no tiles are cut, then the number of tiles needed to cover the floor is 1,080. Which of the following could be the dimensions of the floor? (Note: 12 inches = 1 foot.)

- A. 15 feet by 9 feet
- B. 15 feet by 18 feet
- C. 30 feet by 18 feet
- D. 30 feet by 36 feet
- E. 45 feet by 36 feet

**Answer:** B

**NEW QUESTION 215**

- (Topic 2)

The probabilities assigned to the four possible outcomes of an experiment are  $p_1$ ,  $p_2$ ,  $p_3$ , and  $p_4$ . If these outcomes are mutually exclusive, which of the following could be  $P_1, p_2, p_3$  and  $p_4$  ?

- A. 0.10, 0.05, 0.50, 0.30
- B. 0.10, 0.50, 0.05, 0.60
- C. 0.25, 0.25, 0.50, 0.30
- D. 0.25, 0.05, 0.10, 0.60
- E. 0.50, 0.25, 0.50, 0.30

**Answer:** C

**NEW QUESTION 216**

- (Topic 3)

The poet Paul Laurence Dunbar (1872-1906) was the premier Black writer of poetry that used the dialect of rural African Americans of the southern United States. Although Dunbar's works were both popular with readers and acclaimed by literary critics during his lifetime, after the First World War a radical shift occurred, at least in critical opinion of his poetry, and twentieth-century critical evaluation of his work has been generally negative. Some critics attacked his work on social grounds for failing to challenge plantation stereotypes of African Americans. Other critics, such as the poet James Weldon Johnson, argued from aesthetic grounds that dialect poetry in general was too limited as an artistic medium, and capable of producing only two effects: pathos and humor. The negative critical trend only began to reverse itself in the 1970s, when scholars began to emphasize the importance of mythic, psychological, and historical dimensions of Dunbar's works, focusing on the interior and exterior realities of African American life after the Civil War.

Which of the following general criticisms of dialect poetry is mentioned in the passage?

- A. Dialect poetry too often uses only the dialect of African Americans living in rural areas of the southern United States.
- B. Dialect poetry is highly limited in the number of artistic effects it can produce.
- C. Dialect poetry fails to represent mythic, psychological, and historical dimensions of experience.
- D. The use of dialect in poetry tends to perpetuate plantation stereotypes of African Americans.
- E. Dialect poetry has only a limited degree of popular appeal

**Answer: B**

#### NEW QUESTION 219

- (Topic 3)

One difficulty in convincing early scientists that craters formed as a result of impacts from space is that most craters are circular. Impacts could come in at any angle, and experiments firing projectiles in the laboratory show that low-angle impacts lead to elliptical craters, not circular ones. Furthermore, while there was rarely evidence of any impacting object, there was often silicate melt around, suggesting that craters were caused by volcanic processes. The breakthrough in understanding crater origin was the recognition that the shock caused by the impacting object—not the object itself—creates a circular crater some twenty times larger than the diameter of the impactor. The impact also generates enough heat to largely vaporize the impactor and melt the native rock.

What can be inferred from the passage about the silicate melt found around craters?

- A. It was not caused exclusively by volcanic processes.
- B. It led early scientists to consider volcanic activity as a cause of crater formation.
- C. It can probably be explained by the intense heat caused by impact

**Answer: ABC**

#### NEW QUESTION 223

- (Topic 3)

Since scientific truths must be discovered, and since many, probably most, are far from (i) \_\_\_\_\_. Futile investigations are (ii) \_\_\_\_\_. Thus, the path to the truth is decidedly a (iii) \_\_\_\_\_ one.

- A. intuitively obvious
- B. routinely acclaimed
- C. hie vi table
- D. sinuous
- E. potentially useful
- F. auspicious
- G. ne eligible
- H. clandestine
- I. progressive

**Answer: ADG**

#### NEW QUESTION 224

- (Topic 3)

In the past, the region's literacy support programs had been \_\_\_\_\_ distributed—abundant in places where literacy rates were relatively high, absent in places where rates were low.

- A. complexly
- B. cautiously
- C. sagaciously
- D. perversely
- E. uniformly

**Answer: D**

#### NEW QUESTION 225

- (Topic 3)

Edited collections of scholarly essays generally tend to be somewhat uneven: they suffer from the \_\_\_\_\_ subject matter of the various essays, the lack of an overarching and consistent thesis, and the variable quality of the contributions.

- A. intriguing
- B. heterogeneous
- C. comprehensive
- D. disparate
- E. mediocre
- F. engaging

**Answer: BD**

#### NEW QUESTION 227

- (Topic 3)

Because most of the fish and waterfowl observed in the Arctic Ocean are (i) \_\_\_\_\_ species, disruptive changes at all levels of the Arctic food chain that have resulted from rapid warming and loss of sea ice there will (ii) \_\_\_\_\_ ecosystems in more southerly habitats.

- A. adaptable
- B. have an impact upon
- C. endangered
- D. resemble those in
- E. migratory
- F. reveal the diversity of

**Answer:** BD

#### NEW QUESTION 230

- (Topic 3)

In 1755 British writer Samuel Johnson published .in acerbic letter to Lord Chesterfield rebuking his patron for neglect and declining further support. Johnson's rejection of his patron's belated assistance has often been identified as a key moment in the history of publishing, marking the end of the culture of patronage. However, patronage had been in decline for 50 years, yet would survive, in attenuated form, for another 50. Indeed. Johnson was in 1762 awarded a pension by the Crown—a subtle form of sponsorship, tantamount to state patronage. The importance of Johnson's letter is not so much historical as emotional: it would become a touchstone for all who repudiated patrons and for all who embraced the laws of the marketplace.

Which of the following best describes the function of the highlighted phrase in the context of the passage as a whole?

- A. It points out the most obvious implications of Johnson's letter to his patron.
- B. It suggests a motivation for Johnson's rejection of Chesterfield's patronage.
- C. It provides information that qualifies the assertion that Johnson's letter sharply defined the end of a publishing era.
- D. It provides a possible defense for Chesterfield's alleged neglect of Johnson.
- E. It refines the notion that patrons are found primarily among the nobility.

**Answer:** C

#### NEW QUESTION 233

- (Topic 3)

In the age of new media technologies, the (i) \_\_\_\_\_ an event and its recording appears to have been (ii) \_\_\_\_\_ : rather than referring to a concert in which both performers and audience members are (iii)M "live" is increasingly used to identify the way in which a performance was recorded or transmitted.

- A. revenue from
- B. distinction between
- C. quality of
- D. maximized
- E. erased
- F. misunderstood
- G. emotionally engaged
- H. physically present
- I. culturally sophisticated

**Answer:** BFH

#### NEW QUESTION 238

- (Topic 3)

In the 1980s the press release announcing the discovery of a new fundamental particle turned a once \_\_\_\_\_ hypothesis of interest to no more than a few hundred physicists into an undisputed fact of global significance.

- A. cogent
- B. fungible
- C. recondite
- D. preeminent
- E. discretionary

**Answer:** C

#### NEW QUESTION 239

- (Topic 3)

Unfortunately, most of the (i) \_\_\_\_\_ suburbia comes from metropolitan critics who glimpse it only fleetingly. Accustomed to the more structured forms of the city, they see only visual (ii) \_\_\_\_\_. And failing to recognize the interactions customary in an urban setting in the social and community life of suburbanites, they see social (iii) \_\_\_\_\_ and miss the real diversity and richness.

- A. appreciation of
- B. analysis of
- C. encroachment on
- D. chaos
- E. analogies
- F. enhancements
- G. development
- H. practices

**Answer:** BEF

#### NEW QUESTION 241

- (Topic 3)

Divided into separate essays on different aspects of Jacques-Louis David's late career. Bordes' catalog (i) \_\_\_\_\_ a great deal of knowledge, never providing a full introduction to the painter's life or to the period in which he lived.

Yet while the book may (ii) \_\_\_\_\_ the casual reader, cognoscenti will delight in the wonderfully complete detail on each picture, not to mention the caustic little jabs at colleagues that Bordes occasionally delivers. The world of David scholarship, as befits its subject, is not a (iii) \_\_\_\_\_ place.  
contains assumes

- A. disputes
- B. satisfy
- C. frustrate
- D. address
- E. gentle
- F. competitive
- G. sophisticated

**Answer:** AEG

#### NEW QUESTION 242

- (Topic 3)

Her tendency toward \_\_\_\_\_ made her willingness to step up and lead the turbulent group all the more impressive.

- A. guilelessness
- B. diffidence
- C. forbearance
- D. rectitude
- E. assiduousness

**Answer:** B

#### NEW QUESTION 244

- (Topic 3)

Even if the merits of the proposal are (i) \_\_\_\_\_, faculty members may be reluctant to (ii) \_\_\_\_\_ given their fear of offending the group that champions it.

- A. unparalleled
- B. dubious
- C. obvious
- D. approve
- E. acquiesce

**Answer:** BD

#### NEW QUESTION 249

- (Topic 3)

Origin, distribution, and habitat are included in the book for some but not all of the plants: offering this information for each species would have given readers a clearer appreciation of the differences between \_\_\_\_\_ and introduced species.

- A. endemic
- B. native
- C. seasonal
- D. rare
- E. unusual
- F. dominant

**Answer:** AB

#### NEW QUESTION 252

- (Topic 3)

Because they require abstraction and generalization, many theories end up \_\_\_\_\_ practical relevance as they fail to capture the richness and complexity of phenomena encountered in real settings.

- A. lacking
- B. enshrining
- C. elevating
- D. repudiating
- E. wanting
- F. supplanting

**Answer:** AD

#### NEW QUESTION 254

- (Topic 3)

Though the ant colonies of fable and film often are invested with the hierarchical organization characteristic of human societies, a real ant colony operates without \_\_\_\_\_.

- A. consciousness
- B. disorder
- C. forethought
- D. direction

E. management

**Answer:** DE

**NEW QUESTION 256**

- (Topic 3)

Other company insiders have recently offered testimony that \_\_\_\_\_ several of the more lurid anecdotes found in Belmer's account, though that testimony hardly minimizes the company's culture of malfeasance and mismanagement.

- A. tempers
- B. corroborates
- C. outdoes
- D. exploits
- E. foreshadows

**Answer:** B

**NEW QUESTION 257**

- (Topic 3)

People who come to believe false rumors often do so quite (i) \_\_\_\_\_ in the sense that their new belief (ii) \_\_\_\_\_ their existing knowledge. This problem is especially acute on the Internet.

Rumors often arise and gain

traction because they fit with, and support, the prior convictions of those who accept them.

- A. tentatively
- B. rationally
- C. cynically
- D. coheres with
- E. detracts from
- F. substitutes for

**Answer:** BD

**NEW QUESTION 262**

- (Topic 3)

Recently, we have seen the emergence of the food movement, or perhaps we should say "movements." since it is

(i) \_\_\_\_\_ as yet by little more than the recognition that industrial food production is in need of reform because its social or environmental or public health or animal welfare or gastronomic costs are too

high. As that list suggests, the activists are coming at the issue (ii) \_\_\_\_\_. Where many social movements, over time, break into various factions representing differing concerns or tactics, the food movement has been (iii) \_\_\_\_\_ from its beginning.

- A. tempered
- B. impeded
- C. unified
- D. in increasing numbers
- E. from divergent directions
- F. with renewed commitment
- G. ideological
- H. splintered
- I. effective

**Answer:** CEG

**NEW QUESTION 267**

- (Topic 3)

Discussions of the collapse of the lowland Maya are not new. However, it might be better to say that Maya civilization as a whole did not collapse, although many zones did experience profound change. Because societies are not bounded, unitary entities, collapses are rarely total, and continuity is a normal part of collapse. At the end of the Classic period [200-900 C.E.], the institution of divine kingship and many of the well-known markers of elite culture such as caned stelae [slabs erected for funerals or commemorative purposes] and hieroglyphic polychromes [multicolored artistic pottery] ended, but Maya civilization continued in modified form with many important features intact (e.g., literacy, war, art, the production of fine ceramics). In some cases large buildings were constructed in the Postclassic period [900-1512 C.E.], but the transition to the Early Postclassic [900-1200 C.E.] era is distinctive for a decrease in elite goods and contexts. The variability in artifact changes during the Terminal Classic [800-900 C.E.] and into the Postclassic, even within artifact classes (e.g., fine versus unslipped ceramics), suggests weaker centralized control than during the Classic period. Site abandonments in the Terminal Classic indicate the collapse of the functional ability of Maya states, but sites that survived show that Maya civilization continued albeit without divine kingship and much of the spectacle around it. The author would most likely characterize the claim that Maya civilization collapsed as

- A. equivocal
- B. truisic
- C. overstated
- D. delusional
- E. mendacious

**Answer:** C

**NEW QUESTION 268**

- (Topic 3)

Scientists have long debated the exact timing of the lunar cataclysm, a period approximately 4 billion years ago when Earth and the Moon were pummeled with asteroids. A clue to this puzzle may come from spherules, millimeter-sized droplets of molten rock formed after an asteroid collides explosively with a planet. Upon

impact, the asteroid vaporizes both itself and the target rock, producing a vapor plume that condenses into spherules. These form a layer preserved in rock, whose age can be estimated using radiometric dating. Scientists know of fourteen of these spherule layers scattered across Earth, but none dates to the theorized lunar cataclysm time period. Four layers, however, are from between 3.47 and 3.24 billion years ago, indicating perhaps a slow decline in collisions. The primary purpose of the passage is to

- A. challenge a basic assumption underlying a theory
- B. analyze a flaw in a novel approach to a problem
- C. describe different processes that could have produced the same phenomenon
- D. explain how a class of data might be useful for answering a question
- E. outline a theory that may reconcile conflicting interpretations of a phenomenon

**Answer: D**

#### NEW QUESTION 270

- (Topic 3)

Although the claim that no one knows what dark matter is remains parallel assertion that dark matter has not been detected.

- A. contentious
- B. questionable
- C. sound
- D. prominent
- E. unassailable
- F. unverifiable
- G. some scientists dispute the

**Answer: CE**

#### NEW QUESTION 271

- (Topic 3)

According to the classical idea of space-time reality, two particles, identical or not, can be distinguished by tracing the motion of the particles along their trajectories. This idea is (1) \_\_\_\_\_ that the particles can be observed continuously, a belief that is (ii) \_\_\_\_\_ with respect to macroscopic bodies, but not with respect to free atoms, which (iii) \_\_\_\_\_ constant observation.

- A. based on the assumption
- B. incompatible with the view
- C. entailed by the fact
- D. fortuitous
- E. innovative
- F. tenable
- G. elude
- H. warrant
- I. abet

**Answer: AFH**

#### NEW QUESTION 272

- (Topic 3)

The importance of the Bill of Rights in twentieth-century United States law and politics has led some historians to search for the "original meaning" of its most controversial clauses. This approach, known as "originalism," presumes that each right codified in the Bill of Rights had an independent history that can be studied in isolation from the histories of other rights, and its proponents ask how formulations of the Bill of Rights in 1791 reflected developments in specific areas of legal thinking at that time. Legal and constitutional historians, for example, have found originalism especially useful in the study of provisions of the Bill of Rights that were innovative by eighteenth-century standards, such as the Fourth Amendment's broadly termed protection against "unreasonable searches and seizures." Recent calls in the legal and political arena for a return to a "jurisprudence of original intention," however, have made it a matter of much more than purely scholarly interest when originalists insist that a clause's true meaning was fixed at the moment of its adoption, or maintain that only those rights explicitly mentioned in the United States Constitution deserve constitutional recognition and protection. These two claims seemingly lend support to the notion that an interpreter must apply fixed definitions of a fixed number of rights to contemporary issues, for the claims imply that the central problem of rights in the Revolutionary era was to precisely identify, enumerate, and define those rights that Americans felt were crucial to protecting their liberty. Both claims, however, are questionable from the perspective of a strictly historical inquiry, however sensible they may seem from the vantage point of contemporary jurisprudence. Even though originalists are correct in claiming that the search for original meaning is inherently historical, historians would not normally seek.

It can be inferred that the author of the passage would be most likely to agree with which of the following statements about the Bill of Rights?

- A. The Bill of Rights' importance in twentieth-century United States law and politics has been overemphasized by some scholars.
- B. The diversity of views among the Bill of Rights' framers and ratifiers makes the search for any right's original meaning inherently problematic.
- C. The omission of certain rights by the framers and ratifiers should limit the number of constitutionally recognized and protected rights today.
- D. Establishing the original meaning of each clause will enable controversial issues to be settled according to the intentions of its framers.
- E. Originalists have exaggerated the contributions of certain framers and ratifiers of the Bill of Rights while downplaying the contributions of others.

**Answer: B**

#### NEW QUESTION 274

- (Topic 3)

Harriet Monroe, who founded *Poetry: A Magazine of Verse* in 1912, argued that the more heterogeneous and sprawling the modern world became, the more poetry needed "an entrenched place, a voice of power." But this goal could only be realized if poets were valued in ways that encouraged them to participate in the world and made writing verse economically viable. Monroe argued that poets needed sites of institutional opportunity like those that had been developed for visual artists, architects, and musicians. She believed that the hand-wringing anticapitalism dominating genteel literary culture—particularly the idea that poetry ought to be removed from "sordid" pecuniary considerations—brought no economic and only illusory aesthetic benefits, instead severing poets from meaningful participation in the modern world.

The passage suggests that Monroe believed that finding "an entrenched place, a voice of power" for poetry would rely on which of the following?

- A. Providing poets with a refuge from the sprawling modern world
- B. Ensuring that poetry as an art could remain free of economic considerations
- C. Creating institutional opportunities for poets to make their work economically viable

**Answer:** C

**NEW QUESTION 275**

- (Topic 3)

Responsibility for the nation's decline rests squarely with a people who take for granted their claims to preeminence but do not \_\_\_\_\_ interest in or commitment to actually maintaining it.

- A. foresee
- B. rebuff
- C. evince
- D. reject
- E. predict
- F. betray

**Answer:** CF

**NEW QUESTION 276**

- (Topic 3)

Experimental magazine essays are quite in vogue, but many of the characteristic that now seem innovative will doubtless look (1) \_\_\_\_\_ in thirty years" time; a vaunted self-consciousness will look affected, a fractured style, far from appearing (ii) \_\_\_\_\_ will appear (iii) \_\_\_\_\_ instead.

- A. mannered
- B. groundbreaking
- C. foreign
- D. radical
- E. conventional
- F. pretentious
- G. quaint
- H. idiosyncratic
- I. auspicious

**Answer:** CDE

**NEW QUESTION 280**

- (Topic 3)

What accounts for the low-lying, flat surface of Mars's north? On Earth's surface, higher- and lower-lying areas have different types of crust: one, thin and dense, is pulled toward Earth's center more strongly by gravity, and the planet's water naturally comes to sit over it, creating oceans. The processes that generate this oceanic crust drive plate tectonics.

Is Mars's north similarly characterized by a sort of crust different from other areas of the planet? Some researchers do see signs of tectonic activity surrounding the northern basin that suggest that it was created through the formation of new crust, like ocean basins on Earth. However, McGill points to northern bedrock structures that predate the features said to mark the start of the tectonic process. McGill instead believes that through some novel mechanism the ancient surface sank to its current depth as a single unit. This would explain why features around the basin's edge, which would have formed as the surface dropped, seem to be younger than structures at its floor.

The third possibility is that the northern lowlands result from impacts. Some researchers suggest they formed as a series of big overlapping impact craters. Others, arguing that the odds against such a pattern of impacts are large, postulate a single event—the impact of an object bigger than any asteroid the solar system now contains.

The passage implies that McGill points to certain "northern bedrock structures" in order to

- A. establish the maximum and minimum bounds for the age of the northern basin of Mars
- B. contrast the geological characteristics of the northern basin with the characteristics of the terrain at its rim
- C. question the role of impacts in the formation of Mars's surface features
- D. dispute the idea that the northern basin of Mars was formed by the creation of new crust
- E. argue that their elevation now must be lower than it was at the time the structures formed

**Answer:** B

**NEW QUESTION 281**

- (Topic 3)

There is a rather \_\_\_\_\_ reason for astronomers sudden interest in comets: most other bodies in the solar system have been explored already.

- A. pedantic
- B. prosaic
- C. controversial
- D. untenable
- E. mysterious

**Answer:** B

**NEW QUESTION 283**

- (Topic 3)

When Ms. Alvarez campaigns, she tends to \_\_\_\_\_ small towns: most of her campaign appearances occur in large population centers and media markets.

- A. denigrate
- B. eschew

- C. romanticize
- D. shun
- E. castigate
- F. overlook

**Answer:** DF

**NEW QUESTION 285**

- (Topic 3)

Scientists have recently confirmed that Mercury possesses a lot of ice. \_\_\_\_\_ discovery for a place that ranks among the hottest in the solar system.

- A. a controversial
- B. a stunning
- C. a doubt fill
- D. a counterintuitive
- E. a dubious
- F. an unexpected

**Answer:** AF

**NEW QUESTION 287**

- (Topic 3)

Robert Philip argues that the advent of recorded music has directed performance style into a search for greater precision and perfection, with a consequent loss of spontaneity and warmth. Various expressive devices once common in classical music have been almost outlawed, including portamento (sliding from one note to another on a stringed instrument), playing the piano with the hands not quite synchronized, and flexibility of tempo. Philip fully documents these changes.

However, other forces independent of recording were also at work. For example, the freedom of tempo so valued by Philip was, in its time, both a necessary expedient and disastrously abused. Recording alone did not cause the reaction against it, although hearing a particularly unintelligent use of it on disc may have reinforced the prejudice.

The author would most likely agree with which of the following statements about the "devices"?

- A. Increases in the technical proficiency of performers have made their use superfluous.
- B. They are not useful tools for musical expressivity.
- C. The advent of recorded music had little or no effect on their popularity.
- D. Their use cannot usually be detected in a recording, even when they were used in the recorded performance.
- E. At least some of them have been used inappropriately in the past.

**Answer:** E

**NEW QUESTION 291**

- (Topic 3)

The unwillingness of either political party to surrender any ground on the issue makes compromise unlikely: both sides are too \_\_\_\_\_.

- A. entrenched
- B. pessimistic
- C. dispirited
- D. obdurate
- E. wary
- F. belligerent

**Answer:** DF

**NEW QUESTION 293**

- (Topic 3)

When Flemish painter Anthony Van Dyck moved to England in 1632 to become court painter to Charles The introduced an entirely new way of representing dress in portraiture. In women's portraits, he left off fashionable accessories, depicted subjects in unbuttoned sleeves and collars, and added lavish drapery and jewels. For the first time an artist actively participated in dressing his subjects, creating an amalgam of fantasy and reality. While Van Dyck was most innovative when representing women, he used similar elements in portraits of men.

Van Dyck's Portrait of Thomas Killigrew and William Lord Crofts (1638) demonstrates how the artist relaxed and unbuttoned men's dress to accord with an underlying theme. The double portrait may be seen as an essay in grief: Killigrew, a poet and playwright, had lost his wife Cecelia to the plague shortly before the sitting, and Crofts was her nephew. The painting contains clear references to the situation at hand. The background features a broken column, a traditional emblem of earthly transience. A drawing in Killigrew's right hand depicts two Itinerary monuments. Crofts holds a blank sheet of paper, seen by some scholars as an analog to the drawing Killigrew holds: a symbol of what is gone.

As historians have interpreted the clothing depicted in this portrait, particularly Crofts' doublet which is worn unbuttoned in back, as an allusion to the subjects' grief-stricken distraction. It is true that Killigrew's dress includes references to his loss—he wears a cross inscribed with his wife's initials. There is an intimate nature to this painting, which seems underscored by the loose clothing worn by both subjects. However, this reading of the costumes as signs of grief does not take account of seventeenth-century fashion

conventions. Only Killigrew appears in noticeably disheveled attire;

Crofts' dress would be quite appropriate for a formal portrait. Though black clothing, such as that worn by Crofts, was common for mourning, it was also ordinary on other occasions. Furthermore, during the first stage of mourning no shiny surfaces, such as Crofts' satin doublet, would be permitted. The unbuttoned slit on Crofts' doublet was probably a matter of style: a French courtier in a 1635 fashion print by Bosse, who is gallivanting rather than grieving, wears a similarly undone doublet. Evidence suggests that by the late 1630s a certain calculated looseness was conventional in men's formal dress. Ribeiro, for example, cites the writings of moralists objecting to this style.

Killigrew's attire, though even looser than Crofts', should not necessarily be associated with grief. Other seventeenth-century subjects depicted in melancholic states do not dress this way. Although Killigrew's "undress" lends this portrait a distinctive intimacy, it might also refer to Killigrew's literary career. Many of Van Dyck's other subjects who engaged in literary pursuits are depicted in loose clothing. The blank sheet held by Crofts may be a reminder not only of Killigrew's loss but also of his solace: he had but to express his grief in writing.

Which of the following best describes the function of the last sentence of the passage?

- A. It suggests that a certain detail of the painting should not be understood ;is emblematic.

- B. It calls attention to a detail of the painting that art historians have generally overlooked.
- C. It offers support for the author's interpretation of the significance of Killigrew's clothing.
- D. It introduces evidence to support the author's view of the appropriateness of Crofts' manner of dress.
- E. It casts doubt on the way that art historians have interpreted the relationship between the two subjects in the painting.

Answer: A

#### NEW QUESTION 295

- (Topic 3)

- A. Du Bois's exhibit of African American history and culture at the 1900 Paris Exposition Universelle attracted the attention of a world of sociological scholarship whose values his work challenge
- B. Du Bois believed that sociological sociologists failed in their attempts to gain greater understanding of human deeds because their work examined not deeds but theories and because they gathered data not to effect social progress but merely to theorize
- C. In his exhibit
- D. Du Bois sought to present cultural artifacts that would shift the focus of sociology from the construction of vast generalizations to the observation of particular
- E. living individual elements of society and the working contributions of individual people to a vast functioning social structure. The passage implies that Du Bois attributed which of the following beliefs to Spencerian sociologists?
- F. Theorizing is important to the understanding of human actions.
- G. Vast generalizations have limited value.
- H. Data gathering is a relatively unimportant part of sociological research.
- I. Sociology should focus on the living elements of society rather than cultural artifacts.
- J. Particulars are more important than universals.

Answer: A

#### NEW QUESTION 300

- (Topic 3)

The geographer held a (i) \_\_\_\_\_ view of the succession of theoretical trends (environmental determinism, spatial determinism, and various types of critical theory) in her field, maintaining that theory can (ii) \_\_\_\_\_ what is transpiring in a complex environment by focusing excessively on the favored schemes and variables of the moment.

- A. self-contradictory
- B. sanguine
- C. deprecatory
- D. exacerbate
- E. obfuscate
- F. magnify

Answer: CE

#### NEW QUESTION 305

- (Topic 3)

Though mathematics is \_\_\_\_\_, like language, it has its roots in the mud of everyday embodied experience: one such root is counting.

- A. essential
- B. indispensable
- C. abstract
- D. theoretical
- E. prescriptive
- F. functional

Answer: CD

#### NEW QUESTION 306

- (Topic 3)

Souk years ago someone in the police force had discovered a way of manipulating crime statistics; the methods used, though simple, were not immediately transparent, and without actually being \_\_\_\_\_ were nevertheless utterly misleading.

- A. hypocritical
- B. slipshod
- C. careless
- D. mendacious
- E. deceitful
- F. opportunistic

Answer: BE

#### NEW QUESTION 307

- (Topic 3)

The landmasses that we see on Earth today have moved around the globe, smashing together and splitting apart several times over the past 3 billion years. These cycles of (i) \_\_\_\_\_ and (ii) \_\_\_\_\_ have affected Earth's crust and underlying mantle, its atmosphere and climate, and the life it supports.

- A. stability
- B. collapse
- C. entropy
- D. dispersal

- E. amalgamation
- F. renewal

**Answer:** CE

**NEW QUESTION 312**

- (Topic 3)

The inventory of confirmed planets outside our solar system is growing rapidly, although it is \_\_\_\_\_ by the fact that it is easier to detect big planets than small ones and planets close to their parent stars than those farther away.

- A. encumbered
- B. reinforced
- C. belied
- D. biased
- E. distorted
- F. corroborated

**Answer:** AE

**NEW QUESTION 314**

- (Topic 3)

Sunflower sea slurs help maintain certain kelp forest ecosystems by eating quickly reproducing prey species such as urchins, thus keeping populations low. Without the sea stars, the urchin population explodes, which is bad news for kelp forests and everything in them. Giant kelp can grow to 150 feet underwater at a speed of two feet a day. but their weaknesses are their holdfasts. which are akin to tree roots. The holdfasts are home to brittle stars, prawns, and snails, among other creatures. Urchins like to eat the kelp holdfasts. Once the holdfasts are gone, the rest of the kelp drifts off\* in the tides. In this way. urchins can destroy the forests, which, higher up. are also home to fish, including several types of commercially important rockfish. According to the passage, sea urchin populations

- A. often drift in the tide along with sea kelp
- B. are a favored prey of certain commercially important fish
- C. sometimes prey on commercially important fish species
- D. can damage the habitats where brittle stars live
- E. reproduce most rapidly in holdfasts of kelp forests

**Answer:** D

**NEW QUESTION 316**

- (Topic 3)

The relevance of the literary personality—a writer's distinctive attitudes, concerns, and artistic choices—to the analysis of a literary work is being scrutinized by various schools of contemporary criticism. Deconstructionists view the literary personality, like the writer's biographical personality, as irrelevant. The proper focus of literary analysis, they argue, is a work's intertextuality (interrelationship with other texts), subtexts (unspoken, concealed, or repressed discourses), and metatexts (self-referential aspects), not a perception of a writer's verbal and aesthetic "fingerprints." New historicists also devalue the literary personality, since, in their emphasis on a work's historical context, they credit a writer with only those insights and ideas that were generally available when the writer lived. However, to readers interested in literary detective work—say scholars of classical (Greek and Roman) literature who wish to reconstruct damaged texts or deduce a work's authorship—the literary personality sometimes provides vital clues. The passage is primarily concerned with

- A. discussing attitudes toward a particular focus for literary analysis
- B. describing the limitations of two contemporary approaches to literary analysis
- C. pointing out the similarities among seemingly contrasting approaches to literary analysis
- D. defending the resurgence of a particular focus for literary analysis
- E. defining a set of related terms employed in literary criticism

**Answer:** A

**NEW QUESTION 320**

- (Topic 3)

Researchers concluded that although the success of pearl millet crops in the region varied with seasonal climatic conditions, cultivation remains \_\_\_\_\_ because of pearl millet's predisposition to perform under stressful growing conditions, including drought.

- A. erratic
- B. advantageous
- C. inconsistent
- D. prevalent
- E. impractical
- F. expedient

**Answer:** BF

**NEW QUESTION 323**

- (Topic 3)

There is a long-standing historical presumption that social custom during the early years of the United States forbade women from public speaking. In fact, though, the standard mode of education of the 1790s and early 1800s, which emphasized oral recitation and performance, taught girls that educated and well-spoken women had an important role to play in American society. By depicting skilled speech as a necessary talent for women in a civilized society, elocutionary education encouraged a certain degree of female ambition and even political involvement. Transmitted via standard, inexpensive schoolbooks, this message reached virtually all who read schoolbooks or attended schools. This environment did not last long, however: even by the 1810s, attitudes about women's education had changed considerably.

The passage suggests that women's education during the 1810s differed from women's education during the 1790s and early 1800s in that women's education during the 1810s

- A. placed less emphasis on public speaking
- B. emphasized the relationship between rhetorical skills and civic virtue
- C. assumed that women could become politically active
- D. was based on a more modern vision of what constituted civilized society
- E. suffered from the reduced availability of inexpensive textbooks

**Answer:** A

#### NEW QUESTION 326

- (Topic 3)

Although the percentage of first graders in Almaria who were excellent readers varied little between 1995 and 2010 the percentage of first graders who had considerable difficulty reading their schoolbooks increased markedly during that period. This evidence strongly indicates that the average reading ability of first graders decreased between 1995 and 2010.

Which of the following, if true, provides the strongest additional support for the argument?

- A. The number of hours devoted to reading activities in first-grade classrooms in Almaria did not vary significantly, on average, between 1995 and 2010.
- B. The percentage of first graders in Almaria who had difficulty solving arithmetic problems did not increase as much between 1995 and 2010 as did the percentage of first graders who had reading difficulties.
- C. The number of children in Almaria who were enrolled as first graders decreased steadily between 1995 and 2010.
- D. The average difficulty of the schoolbooks used in first-grade classrooms in Almaria decreased between 1995 and 2010.
- E. The average number of schoolbooks used in first-grade classrooms in Almaria increased between 1995 and 2010.

**Answer:** D

#### NEW QUESTION 328

- (Topic 3)

In recent years it has become common for industrial workers who do heavy lifting to wear special wide leather belts that are advertised as reducing back strain. However, physiologists doubt that these belts actually reduce back strain. In fact the belts must put additional strain on the back, since records of injuries to industrial workers show that

people wearing the belts were significantly more likely to suffer a back injury than were others doing the same job.

Which of the following, if true, most strengthens the argument?

- A. The special belts were first popularized by recreational weight lifters.
- B. For more than a decade, the overall rate of back injuries among industrial workers has been increasing.
- C. Because of changes in federal safety regulations, records of worker injuries have become much more comprehensive in recent years.
- D. In recent years the length of the average workweek—measured in hours—has increased dramatically for industrial workers who do heavy lifting.
- E. Those workers who chose to wear the special belts always tended to follow proper safety practices on the job.

**Answer:** B

#### NEW QUESTION 329

- (Topic 3)

The snow-covered surface of the lake presents a reassuring illusion of \_\_\_\_\_. but beneath the snow the ice is riven with treacherous cracks.

- A. uniformity
- B. isolation
- C. seclusion
- D. protection
- E. substantially
- F. soundness

**Answer:** AC

#### NEW QUESTION 333

- (Topic 3)

Carbon dating of charcoal gathered from a Nok iron smelter at Intime, Nigeria, suggests that iron technology was established there by 410 B.C. This may not be the oldest smelter in sub-Saharan Africa, however. Archaeologists have located evidence of iron-smelting in the Termite Hills of Niger from as early as 1400 B.C., but skeptics say the wood used for that dating could have already been centuries old when burned as fuel—a problem that dogs carbon dating, especially in arid places like Niger, where wood desiccates and lasts longer. Of course, the same problem could distort dates for the Intime furnace as well, but here there is an important piece of corroborating evidence: Nok pottery found inside the furnace alongside the charcoal.

The author implies which of the following about the "Nok pottery found inside the furnace"?

- A. It provides independent support for the results of the carbon dating of the charcoal.
- B. It was probably imported to Intime from a less arid climate.
- C. It predates the pottery found in the Termite Hills of Niger.
- D. It indicates that the furnace was used primarily for purposes other than smelting.
- E. It contains traces of iron smelted in the same furnace.

**Answer:** A

#### NEW QUESTION 336

- (Topic 3)

It is an ironic reversal that just those politicians who most vociferously lambasted the distorting complexities of the country's tax system are now the ones \_\_\_\_\_ an agreement that worsens the mess.

- A. espousing
- B. discounting
- C. eschewing
- D. championing
- E. negotiating
- F. ignoring

**Answer:** AD

**NEW QUESTION 337**

- (Topic 3)

Mathematicians have sometimes acknowledged that \_\_\_\_\_ is a requirement for creativity: for example, Poincare described explicitly a time when he experienced an insight after an incubation period, a period during which the unconscious mind was at work.

- A. intelligence
- B. preparation
- C. motivation assistance
- D. collaboration

**Answer:** C

**NEW QUESTION 338**

- (Topic 3)

The town's air was consistently \_\_\_\_\_ depending on the breeze, one might be greeted with the sour effluvia of twenty breweries, choking fumes from the coal tar factory, or brackish smells from the nearby river.

- A. malodorous
- B. toxic
- C. redolent
- D. benign
- E. noisome
- F. anodyne

**Answer:** AC

**NEW QUESTION 343**

- (Topic 3)

Despite the general \_\_\_\_\_ of Roman archaeological studies toward the major cities and their monuments, archaeology has contributed much to a better understanding of rural developments in Roman territory.

- A. openness
- B. indifference
- C. hostility
- D. animus
- E. bias
- F. orientation

**Answer:** DE

**NEW QUESTION 345**

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