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Topic Break Down

Topic	No. of Questions
Topic 1, Reading Comprehension	120
Topic 2, Sentence Correction	157
Topic 3, Math	150
Total	427

QUESTION NO: 1

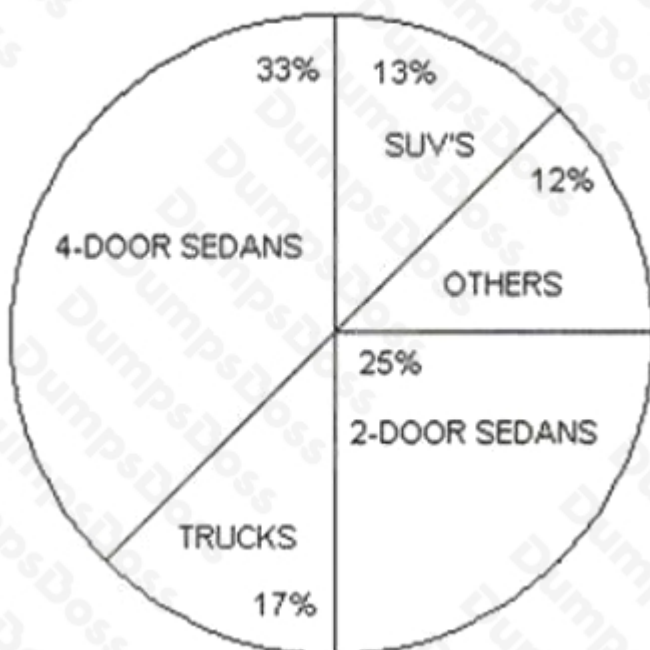
If Leah is 6 years older than Sue, and John is 5 years older than Leah, and the total of their ages is 41. Then how old is Sue?

- A. 8
- B. 10
- C. 14
- D. 19
- E. 21

ANSWER: A**QUESTION NO: 2**

If XYZ Auto Company sold 23,000 vehicles in 1999, how many were SUV's?

Percentage of Vehicle Types that XYZ
Auto Company sold in 1999



- A. 2,990
- B. 3,030
- C. 3,450
- D. 4,760
- E. 4,775

ANSWER: A

Explanation:

The number of SUVs sold is equal to $0.13 \times 23,000$, or 2,990.

QUESTION NO: 3

83,000 equals:

- A. 83.0×10^4
- B. 8.3×10^4
- C. 8.3×10^3
- D. 83.0×10^5
- E. 83.0×10^2

ANSWER: B

QUESTION NO: 4

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At the early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics.

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the worldfamous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

Even though she became fatally ill from working with radium, Marie Curie was never ____.

- A. troubled
- B. worried
- C. disappointed
- D. sorrowful
- E. disturbed

ANSWER: C

QUESTION NO: 5

Read the following sentence and select the option that corrects the underlined sections.

In studying an assignment, it is wise to read it over quickly at first, than see the major points, and finally outline the material.

- A. first, than
- B. first: then
- C. first-then
- D. first, then
- E. first-than

ANSWER: D

Explanation:

"Then" is an adverb indicating time or sequence here. "Than" is a conjunction indicating comparison, e.g. "He is taller than I am" or "We would rather go now than later." When listing three sequential steps as in this sentence, the comma after the first and second steps is correct punctuation; a colon or hyphen is incorrect.

QUESTION NO: 6

Add $0.98 + 45.102 + 32.3333 + 31 + 0.00009$

- A. 368.573

B. 210.536299

C. 109.41539

D. 99.9975

E. 80.8769543

ANSWER: C

QUESTION NO: 7

Select the answer choice that either contains an error, or select choice E, which is "No error." You (A)had better (B)leave for home (C)quick if you want (D)to avoid the storm. (E)No error.

A. A

B. B

C. C

D. D

E. E

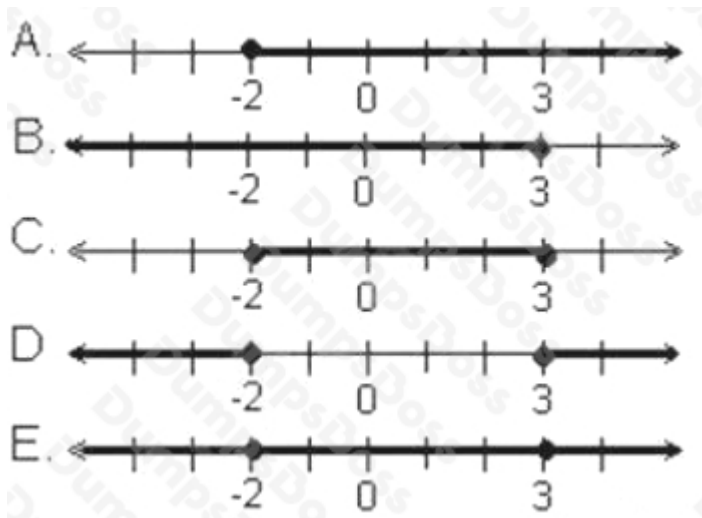
ANSWER: C

Explanation:

The correct adverb to modify the verb "leave" is "quickly." "Quick" is an adjective and can only modify a noun, e.g. "You had better make a quick trip home if you want to avoid the storm."

QUESTION NO: 8

Which of the following is the correct graph for $x \geq 3$ or $x \leq -2$?



A. Line A

B. Line B

C. Line C

D. Line D

E. Line E

ANSWER: D

Explanation:

The correct graph should show one ray, with a closed point on the integer, -2 , which points to the left, and another ray, with a closed point on the integer, 3 , which points to the right.

QUESTION NO: 9

Read the following sentence and select the choice that best replaces the underlined section.

Everyone in the bank—including the manager and the tellers, ran to the door when the fire alarm rang.

A. tellers, ran

B. tellers: ran

C. tellers, had run

D. tellers – ran

E. tellers' ran"

ANSWER: D

Explanation:

The modifying phrase inserted between subject and predicate should be set off on both sides by dashes, not just one. Non-matching punctuation marks, like a dash before it but a comma after it, or a dash before but a colon after it (B), are incorrect and asymmetrical. An apostrophe indicates possession and is incorrect in a non-possessive plural noun. There is no reason for the incorrect, extraneous closequotation mark after the verb either.

QUESTION NO: 10

The cost to ride on a ferry is \$5.00 per vehicle and driver with an additional cost of 50 cents per passenger. If the charge to get on the ferry is \$6.50, how many people were in the vehicle?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

ANSWER: D**QUESTION NO: 11**

What if someone told you about a kind of grass that grows as tall as the tallest trees? A grass that can be made as strong as steel? A grass from which houses, furniture, boats, and hundreds of other useful things can be made? A grass that you would even enjoy eating? Would you believe that person? You should, for that grass is bamboo, the “wood” of 1,001 uses.

Bamboo may look like wood, but it is part of the family of plants that includes wheat, oats, and barley. It is a kind of grass. This grass is not just a material for making useful products. Young bamboo is eaten, often mixed with other vegetables, in many Asian foods.

Bamboo grows in many parts of the world. In the United States it grows in an area from Virginia west to Indiana and south to Florida, Louisiana, and Texas. Most bamboo, however, is found in warm, wet climates, especially in Asia and on the islands of the South Pacific Ocean.

In most Asian countries, bamboo is nearly as important as rice. Many Asians live in bamboo houses. They sit on bamboo chairs and sleep on bamboo mats. They fence their land with bamboo and use the wood for cages for chickens and pigs.

Bamboo is used to build large buildings as well as homes. When it is glued in layers, it becomes as strong as steel. On some islands in the South Pacific, bamboo is even used for water pipes. This extraordinary material has many other uses. It is used to make musical instruments, such as flutes and recorders. Paper made from bamboo has been highly prized by artists for thousands of years.

Bamboo is light and strong, and it bends without breaking. It is cheap, floats on water, almost never wears out, and is easy to grow. Nothing else on earth grows quite so fast as bamboo. At times you can even see it grow! Botanists have recorded growths of more than three feet in just twenty-four hours! Bamboo is hollow and has a strong root system that almost never stops growing and spreading. In fact, only after it flowers, an event that may happen only once every thirty years, will bamboo die.

There are more than a thousand kinds of bamboo. The smallest is only three inches tall and one-tenth of an inch across. The largest reaches more than two hundred feet in height and seven inches in diameter. No wonder, then, that the lives of nearly half the people on earth would change enormously if there were no longer any bamboo. No wonder, too, that to many people bamboo is a symbol of happiness and good fortune.

What is the main idea of this passage?

- A. Bamboo has at least 2,000 uses.
- B. Bamboo grows at an amazing rate and is found primarily in Asia.
- C. Bamboo is an amazing grass that can be used in multiple ways.
- D. There are at least a 1,000 types of bamboo.
- E. Bamboo could be considered a flower in some cases.

ANSWER: C

QUESTION NO: 12

If pentagon ABCDE is similar to pentagon GHIDF, and DI = 20, CD = 50, and DE = 45, what is DF?

- A. 112.5
- B. 25
- C. 18
- D. 15

ANSWER: C

QUESTION NO: 13

What is the volume of a cube whose width is 5 inches?

- A. 15 cubic inches
- B. 25 cubic inches
- C. 64 cubic inches
- D. 100 cubic inches
- E. 125 cubic inches

ANSWER: E

QUESTION NO: 14

The winning team of the World Series often has a jovial attitude.

Jovial means

- A. Merry
- B. Sad
- C. Somber
- D. Laborious

ANSWER: A**QUESTION NO: 15**

Select the answer choice that either contains an error, or select choice E, which is "No error."

There (A)isn't (B)scarcely room on the front steps (C)to pose the (D)entire class for a picture. (E)No error.

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

ANSWER: A**Explanation:**

"Scarcely" means "barely" or "hardly;" i.e. it minimizes, indicating very little. Only a positive quantity, like the state of being indicated by "is," can be minimized. A negative, i.e. "is not," cannot be minimized, as nothing exists to be made smaller. Minimizer + negative is akin to a double negative and equally incorrect.

QUESTION NO: 16

Which of the following numbers could be described in the following way: an integer that is a natural, rational and whole number?

- A. 0
- B. 1
- C. 2.33

- D. -3
- E. none of the above

ANSWER: B

QUESTION NO: 17

Which of the following is an equation of the line passing through (-2, 4) and (6, 0)?

- A. $y = 1/2 x + 3$
- B. $y = -1/2 x + 3$
- C. $y = -2x + 3$
- D. $y = -1/2 x + 6$

ANSWER: B

QUESTION NO: 18

If 300 jellybeans cost you x dollars. How many jellybeans can you purchase for 50 cents at the same rate?

- A. $150/x$
- B. $150x$
- C. $6x$
- D. $1500/x$
- E. $600x$

ANSWER: A

QUESTION NO: 19

Read the following sentence and select the choice that best replaces the underlined section.

The smell from the paper mill laid over the town like a blanket.

- A. laid
- B. has lain

- C. will lie
- D. lay
- E. has laid

ANSWER: D

Explanation:

The past tense of intransitive verb "to lie," meaning to rest or be situated, is "lay." "Laid"/"has laid" is past tense/present perfect tense only for the transitive verb, e.g. "The paper mill laid/has laid a smell over the town." There is no contextual reason to use present perfect "has lain" or future "will lie" in this sentence.

QUESTION NO: 20

Select the answer choice that either contains an error, or select choice E, which is "No error." The man who (A)sat (B)beside Ben and (C)I (D)was running for the city council. (E)No error.

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

ANSWER: C

Explanation:

"Ben and I" as an indirect object is incorrect: it should be "Ben and me." The correct personal pronoun can be ascertained by removing the added "Ben and:." We would not write "The man who sat beside I," but "The man who sat beside me..." and this does not change when adding another object (Ben).