

K-12

ISEE-Middle-Level

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Subjects

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8. Charles Darwin on the Galapagos Islands
9. The Inventions of Technology
10. Section 4 — Mathematics Achievement

Topic: 1

Section 1 — Verbal Reasoning

DIRECTIONS: Each of the following questions consists of one word followed by four words. Select the one word whose meaning is closest to the word in capital letters. You are not allowed to use scrap paper, a dictionary, or a thesaurus.

Part One - Synonyms

Question: 1

ABROAD

- A. harsh
- B. overseas
- C. selfish
- D. truthful

Answer: B

Explanation:

When someone is abroad, it usually means that they are away, overseas, or in a foreign country.

Question: 2

CONCISE

- A. brief
- B. difficult
- C. lengthy
- D. reasonable

Answer: A

Explanation:

When something is described as concise, it usually means that it is brief or compact.

Question: 3

LEVITY

- A. attended
- B. delivered
- C. happiness
- D. prepared

Answer: C

Explanation:

Levity means happiness or silliness.

Question: 4

RASH

- A. area
- B. careless
- C. plan
- D. resist

Answer: B

Explanation:

When something is described as rash, it usually means that it is careless or bold.

Question: 5

MOURN

- A. cry
- B. direction
- C. event
- D. plan

Answer: A

Explanation:

When someone mourns, it means that they are crying or filled with regret.

Question: 6

RUMINATE

- A. concern
- B. decision
- C. hesitation
- D. reflect

Answer: D

Explanation:

When someone ruminates, it means that they are reflecting, thinking, or brainstorming about something or someone.

Question: 7

BANISH

- A. experiences
- B. pleasures
- C. remove
- D. solutions

Answer: C

Explanation:

When it is said that someone has been banished, it means that they have been removed or dismissed from a place.

Question: 8

The table shows the cost of renting a bicycle for 1, 2, or 3 hours. Which of the following linear equations best represents the data, if C represents the cost and h represents the time of the rental?

Hours	1	2	3
Cost	\$3.60	\$7.20	\$10.80

- a. $C = 3.60h$
- b. $C = h + 3.60$
- c. $C = 3.60h + 10.80$
- d. $C = \frac{10.80}{h}$

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

Answer: A

Explanation:

To find the slope of this equation, choose any two points to use in the slope equation. For example, (1,3.60) and (2,7.20).

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{7.20 - 3.60}{2 - 1} = \frac{3.60}{1} = 3.60$$

The table indicates that for each hour of rental, the cost increases by \$3.60. This corresponds to the slope of the equation. Of course, if the bicycle is not rented at all (0 hours), there will be no charge (\$0). If plotted on the Cartesian plane, the line would have a y-intercept of 0. Therefore, the equation of the line is $C = 3.60h$.

Question: 9

Chan receives a bonus from his job. He pays 30% in taxes, gives 30% to charity, and uses another 25% to pay off an old debt. He has \$600 left. What was the total amount of Chan's bonus?

- A. \$3,000
- B. \$3,200
- C. \$3,600
- D. \$4,000

Answer: D

Explanation:

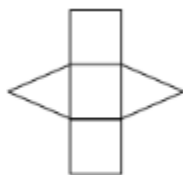
Besides the \$600 he has remaining; Chan has paid out a total of 85% (30% + 30% + 25%) of his bonus for the expenses described in the question. Therefore, the \$600 represents the remaining 15%. Remember that 15% can be written as 15/100. To determine his total bonus, solve

$$\frac{15}{100}x = 600. \text{ So, } x = \frac{100}{15} \times 600 = 4,000 \text{ dollars.}$$

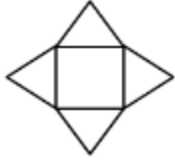
Question: 10

Which of the following represents the net of a triangular prism?

A.



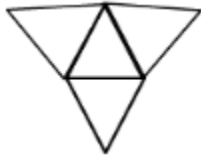
B.



C.



D.



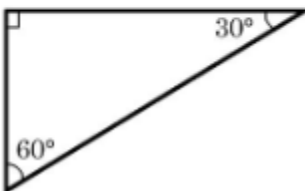
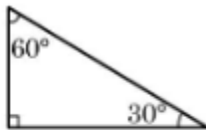
Answer: A

Explanation:

The net of a triangular prism has three rectangular faces and two triangular faces. This is true of both A and C, but net C cannot be folded into a triangular prism, because the rectangular faces on the end cannot be made to join each other. So only A can be folded into a triangular prism.

Question: 11

The figure below shows two triangles that are _____.



- A. congruent
- B. equilateral
- C. similar
- D. isosceles

Answer: C

Explanation:

The triangles are similar because they have the same angles. Congruent triangles have the same angles and are of the same size. In an equilateral triangle, all three sides are the same length. Finally, in an isosceles triangle, two of the three sides are the same length.

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