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Question: 1

According to the passage above, what is a true statement about students in elementary schools?

A. All students should be able to talk about the climate of their area and other areas.
B. All students should be able to describe current weather conditions.
C. All students should be able to tell how mountains affect climate.
D. All students should be able to explain how landforms affect climate.
E. All statements are true.

Answer: B

Explanation:
The passage mentions that elementary school students should be able to talk about today's weather and their area's climate (B). A student's ability to discuss other climates (A) and how landforms affect climate (D) depends on his or her developmental level, according to the passage. Only the current weather and the climate the student lives in are listed in the passage as things all students should be able to describe.

Question: 2

Which word best describes seasonal climate, like that of the northeast United States?

A. Tropical
B. Dry
C. Hot
D. Mild
E. Continental

Answer: E

Explanation:
The passage defines continental climate as a climate with seasons. The passage suggests that tropical dry (B) and hot and mild (D) climates do not have seasons like continental climates do.

Question: 3

According to the passage, what can mountains do to an area's climate?

A. Block the wind and make it mild
B. Block the wind and make it warmer
C. Increase the wind and make it milder

D. Increase the wind and make it warmer
E. Nothing

<div align="right">Answer: B</div>

Explanation:
The passage clearly states that a mountain can buffer winds and cause an area to be warmer. Answer A correctly states that mountains block wind, but incorrectly states that this makes nearby areas have a mild climate. Answers C and D both incorrectly state that mountains allow more wind in an area. Answer E is incorrect because the passage does explicitly list some effects mountains can have on a climate.

Question: 4

Of the choices listed, which one does NOT have an effect on an area's climate?

A. Weather balloons
B. Ocean currents
C. An area's elevation
D. Mountain ranges
E. Proximity to the equator

<div align="right">Answer: A</div>

Explanation:
The passage mentions the effects that ocean currents elevation mountains and proximity to
the equator (E) can have on an area's climate. Weather balloons (A) are simply used to study weather, and they are not mentioned in the passage.

Question: 5

Which word best describes the relationship between the words weather and climate?

A. They are synonyms
B. They are antonyms
C. They are homonyms
D. They are homophones
E. They are related words

<div align="right">Answer: E</div>

Explanation:
The passage states that weather and climate have different meanings. They have related meanings, but they are neither synonyms (A) nor antonyms (B). They also do not have similar spellings or pronunciations, so they are not homonyms (C) or homophones However, they are often used within the same basic subject area, so they are related words

Which of the following would be a good title for the passage?

A. An Overview of Vocational Counseling
B. Why Students Need Vocational Counseling
C. The Duties of the Vocational Counselor
D. The Counselor in the School
E. The Value of the Vocational Counselor

Answer: A

Explanation:
Answer A "An Overview of Vocational Counseling," most accurately describes the content of the passage,
so it is the correct choice. This passage describes the role of the vocational counselor (C) and how vocational
counseling benefits students (B). Since the passage covers several aspects of vocational counseling, answers B,
C. and E would not be good titles because they are not broad enough to accurately describe the passage. The
passage also specifically discusses vocational counseling, so a title that focuses on school counselors in general
would also not be appropriate (D).

According to the passage, the students who benefit most from vocational counseling tend to be:

A. Those who use evaluation instruments.
B. Those who are honest about their interests.
C. Those who already know their eventual career choice.
D. Those who have a vocational counselor in their school.
E. Those who do not have a chosen profession.

Answer: E

Explanation:
The passage describes vocational counseling as a useful tool for students who are not sure what career
they want to pursue, or do not have a chosen profession (E). Students who receive vocational counseling will
likely have a vocational counselor at their school (D) and may use evaluation instruments (A). These students
should also be honest about their interests to receive the best results (B). However. these factors do not
determine whether or not a student needs or would benefit from vocational counseling. Students who already
know what career they wish to pursue will not benefit from vocational counseling as much, as the purpose of
this counseling is to help them make this decision (C).

The main purpose of the passage is to:

A. Argue for vocational counseling as a career choice.
B. Give positive and negative ideas about vocational counseling.
C. Talk about evaluation instruments.
D. Tell what vocational counseling can do for students.
E. Provide reasons to have vocational counselors on-site.

| **Answer: D** |

Explanation:
This passage gives the reader basic information about vocational counseling and how it helps students
(D). Answers A, B, and E suggest that the purpose of the passage is to persuade readers to form an opinion or take action regarding vocational counseling. This is not the purpose of the passage, as it is expository. The purpose of the passage is also not to talk about evaluation instruments (C), as they are a detail mentioned only in the second paragraph.

Question: 9

According to the passage, which of the following is true?

A. Children from low-income homes are always weaker in basic skills than children from higher-income homes.
B. Holding children back a year from starting school is always a mistake,
C. Children from high-income homes often begin school with stronger basic skills than children from lower-income homes.
D. All kids benefit most from starting school on time.
E. Learning at school is preferable to learning at home.

| **Answer: C** |

Explanation:
The passage states that "children from low-income homes tend to begin school with weaker skills than their peers from more advantaged backgrounds," which has the same meaning as answer C. Answers A, B, and D include absolute statements that claim something is true for all students. The passage discusses generalizations. not circumstances that always apply to all students, so these answers are incorrect. The passage does not clearly discuss learning at home, so answer E is also incorrect.

Question: 10

What is the main purpose of this passage?

A. To persuade parents to have their kids begin school on time.
B. To explain the problems teachers have with some students.
C. To tell that not all students are starting school with the same basic skills.
D. To explain the disparity in basic skills when kids initially enter school.
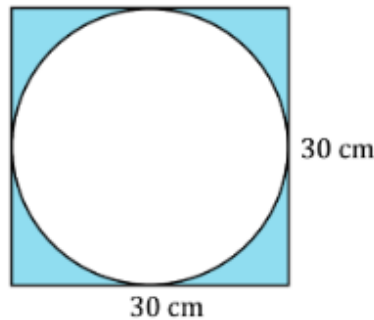E. To highlight the significant differences among students coming from high- and low-income households.

Explanation:

The main purpose of the passage is to inform readers of factors that can cause a disparity in basic skills in students when they begin attending school (D). While this passage discusses the benefits of allowing children to start school on time, it is not a persuasive passage (A). While the passage mentions how the income level of students' parents or guardians (E) can contribute to the visible disparity in students' basic skills (C), these are details discussed in the passage, so neither is the main purpose of the passage, Teachers and their potential problems with students (B) are not mentioned in the passage.

Question: 11

What is the approximate area of the shaded region between the circle and the square in the figure shown below? Use 3.14 for π.

30 cm

30 cm

a. 177 cm^2
b. 181 cm^2
c. 187 cm^2
d. 190 cm^2
e. 193 cm^2

Answer: E

Explanation:

The area of the square is $A = s^2 = (30 \text{ cm})^2 = 900 \text{ cm}^2$. The area of the circle is $A = \pi r^2 = (3.14)(15 \text{ cm})^2 \approx 707 \text{ cm}^2$. The area of the shaded region is equal to the difference between the area of the square and the area of the circle, or $900 \text{ cm}^2 - 707 \text{ cm}^2$, which equals 193 cm^2.

Question: 12

A triangle has angles measuring 40°, 100°, and 40°. Which of the following choices accurately describes the triangle?

a. It is an acute equilateral triangle.
b. It is an acute isosceles triangle.
c. It is an obtuse isosceles triangle.
d. It is an acute scalene triangle.
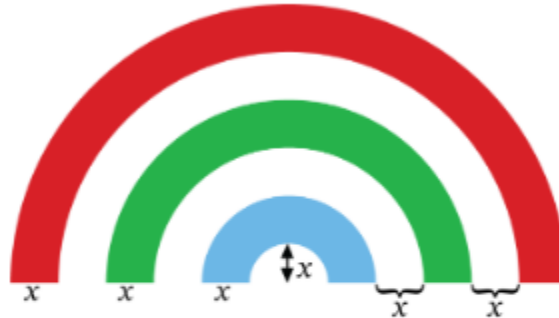e. It is an obtuse scalene triangle.

Answer: C

Explanation:

Any triangle with an angle measuring over 90° is considered an obtuse triangle. Because this triangle has an angle measuring 100°, we must classify it as obtuse. Since we have two 40-degree angles, we know that the sides opposite those angles must be the same length. A triangle with two equivalent sides is described as an isosceles triangle. This triangle must be described as an obtuse isosceles triangle.

Question: 13

A rainbow pattern is designed from semi-circles as shown below.

Which of the following gives the area A of the shaded region as a function of x?

a. $A = \frac{21x^2\pi}{2}$
b. $A = 21x^2\pi$
c. $A = 42x^2\pi$
d. $A = 82x^2\pi$
e. $A = \frac{21x^2\pi}{4}$

Answer: A

Explanation:

The area of a circle is πr^2, so the area of a semicircle is $\frac{\pi r^2}{2}$. Illustrated below is a method which can be used to find the area of the shaded region.

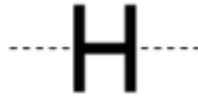$r = 6x$ $r = 5x$ $r = 4x$ $r = 3x$ $r = 2x$ $r = x$

$$A = \frac{36\pi x^2}{2} - \frac{25\pi x^2}{2} + \frac{16\pi x^2}{2} - \frac{9\pi x^2}{2} + \frac{4\pi x^2}{2} - \frac{1\pi x^2}{2}$$

$$A = \frac{(36 - 25 + 16 - 9 + 4 - 1)\pi x^2}{2}$$

$$A = \frac{21\pi x^2}{2}$$

Question: 14

The letter H exhibits symmetry with respect to a horizontal axis, as shown in the figure, as everything below the dashed line is a mirror image of everything above it. Which of the following letters does NOT exhibit horizontal symmetry?

$$-----H-----$$

a. C
b. D
c. E
d. I
e. Z

Answer: E

Explanation:

All of the other capital letters shown are symmetrical with respect to a horizontal axis drawn through the middle, as in the H shown in the figure. Only Z is not symmetrical in this respect.

Question: 15

The volume of a rectangular box is found by multiplying its length, width, and height. If the dimensions of a box are $\sqrt{3}$, $2\sqrt{5}$, and 4, what is its volume?

a. $2\sqrt{60}$
b. $2\sqrt{15}$
c. $4\sqrt{15}$
d. $8\sqrt{15}$
e. $24\sqrt{5}$

Answer: D

Explanation:

The volume of the box is the product of $\sqrt{3}$, $2\sqrt{5}$, and 4. To multiply two or more square root radicals, multiply the coefficients and then multiply the radicands.

$$\sqrt{3} \times 2\sqrt{5} \times 4 = 8\sqrt{3}\sqrt{5} = 8\sqrt{15}$$

Then, simplify the radicand if possible by factoring out any squares. Since 15 cannot be factored into any square factors, it cannot be simplified further.

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