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## Question: 1

The "difference engine" was

- A. domestic technology'
- B. a device used in biomedicine
- C. a computer
- D. invented by Gertrude Elion

**Answer: C**

Explanation:

The introductory phrase of the second sentence, "A woman was involved in the design of the first computer:" ends with a colon, indicating that an example will follow. Thus, the difference engine described in the following clause is an example of a computer. The difference engine is described further in the passage as a device that could add and subtract, which is the definition of a computer.

## Question: 2

The structure of this paragraph is best described as

- A. Topic sentence and analysis
- B. Topic sentence and consequences
- C. Introductory sentence followed by causes and reasons
- D. Topic sentence followed by examples

**Answer: D**

Explanation:

The first sentence introduces the topic, the contributions made to the patent literature by women. The remainder of the paragraph is dedicated to giving examples of these contributions, beginning with Lady Lovelace two centuries ago and continuing through present day contributions to biomedicine. The passage does not describe any causes or effects, so the passage cannot be considered an analysis.

## Question: 3

The passage implies that

- A. women are more productive inventors than men

- B. many surgical methods are patented
- C. women's contributions to the patent literature have been underappreciated
- D. Gertrud Elion did not deserve the Nobel Prize

**Answer: B**

Explanation:

The thrust of the paragraph asserts that women have registered many patents. The final sentence informs us that women have led teams that developed surgical methods. Although not stated explicitly, the paragraph implies that these methods have been patented.

### Question: 4

Which of the following numbers is the greatest?

- A.  $10^3$
- B. 108.7
- C.  $\sqrt{10,000}$
- D. -1025

**Answer: A**

Explanation:

In scientific notation, this is 10 raised to the 3rd power, or 1,000. Choice C, the square root of 10,000, equals 100. While the absolute value of Choice D is 1,025, it is a negative number, so that it is not as great as Choice A.

### Question: 5

Miguel buys a loaf of bread at the grocery store for \$4.25. He also buys two bottles of soda at \$2.15 each, a chocolate bar for \$1.90, a bottle of shampoo for \$5.25, and three magazines at \$1.50 each. How much did he spend in all?

- A. \$16.05
- B. \$19.05
- C. \$20.20
- D. \$20.45

**Answer: C**

Explanation:

Add the numbers together, noting that there are two sodas and three magazines:  $\$4.25 + 2 \times \$2.15 + \$1.90 + \$5.25 + 3 \times \$1.50 = \$4.25 + \$4.30 + \$1.90 + \$5.25 + \$4.50 = \$20.20$ .

## Question: 6

A charity organization is preparing a fund-raising dinner. The goal is to raise \$27,000. They must pay costs of \$1,000 to rent the hall for the evening, plus \$2,500 in wages for staff and \$25.00 per plate of food served. If tickets to the dinner cost \$150, how many tickets must the organization sell in order to reach their goal?

- A. 180
- B. 216
- C. 244
- D. 281

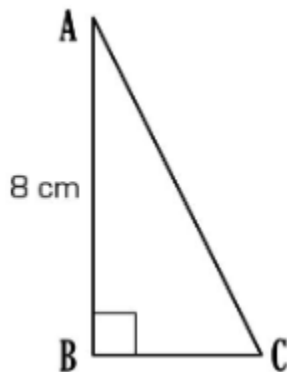
**Answer: C**

Explanation:

Translate the problem into an algebraic equation, and let  $x$  equal the number of tickets sold and therefore the number of plates of food that must be purchased. Then the desired profit will equal  $27,000 = 150x - 25x - 1000 - 2500$ . That is, the profit will equal the revenues per plate, minus the cost per plate and the fixed costs of the hall and staff. Simplifying this equation,  $27,000 = x(150 - 25) - 3500$ . Solving for  $x$  yields  $x = \frac{30,500}{125} = 244$ .

## Question: 7

In the right triangle shown below, side AB is twice the length of side BC. What is the area of the triangle in  $\text{cm}^2$ ?



- A. 8
- B. 16
- C. 24
- D. 32

**Answer: B**

Explanation:

Note that the area of the triangle is one half the area of a rectangle of sides AB and BC. The formula for the area of a triangle reflects this:  $Area = \frac{1}{2} \text{base} \times \text{height}$ . Since AB is twice the length of BC, we have  $BC = 4 \text{ cm}$  and the formula yields  $Area = \frac{1}{2}(8 \times 4) = 16 \text{ cm}^2$ .

### Question: 8

Cassandra must average at least 70 on three math tests to get a passing grade. Her scores on the first two tests were 64 and 80. What is the minimum score she must get on the third test in order to pass?

- A. 70
- B. 74
- C. 72
- D. 66

**Answer: D**

Explanation:

To calculate the average grade, divide the sum of all the grades by the number of tests. This number must equal at least 70. That is,  $\frac{\text{Sum}}{3} \geq 70$ . Solving for the sum shows  $\text{Sum} \geq 3(70)$ , or 210. Since the first two scores, 64 and 80, add up to 144, the third score must be greater or equal to  $210 - 144$ , or 66.

### Question: 9

What is the least common denominator for the fractions  $\frac{1}{15}$ ,  $\frac{1}{21}$ , and  $\frac{1}{14}$ ?

- A. 5
- B. 210
- C. 140
- D. 91

**Answer: B**

Explanation:

The least common denominator, or LCD, is equal to the least common multiple (LCM) of the denominators. To find this, factor the denominators completely:  $15 = 3 \times 5$ ;  $21 = 3 \times 7$ ;  $14 = 2 \times 7$ .

The unique factors are 2, 3, 5, and 7. The product  $2 \times 3 \times 5 \times 7 = 210$  is therefore the LCD. The three fractions are equivalent to  $\frac{14}{210}$ ,  $\frac{10}{210}$ , and  $\frac{15}{210}$ .

### Question: 10

The area of a circle is  $8\pi$ . What is the length of the radius?

- A.  $2\sqrt{2}$
- B. 4
- C. 8
- D.  $3\sqrt{2}$

**Answer: A**

Explanation:

The area of a circle is given by the formula  $A = \pi r^2$ , where  $r$  is equal to the radius. Since  $8\pi = \pi r^2$ , it follows that  $r^2 = 8$  and that  $r = \sqrt{8}$ . Since  $8 = 2 \times 4$ , and  $\sqrt{4} = 2$ , it follows that  $r = 2\sqrt{2}$ .

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