Question 1:

If a certain vase contains only roses and tulips, how many tulips are there in the vase?

(1) The number of roses in the vase is 4 times the number of tulips in the vase.

(2) There is a total of 20 flowers in the vase.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer:

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

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Question 2:

The light in a restroom operates with a 15-minute timer that is reset every time the door opens as a person goes in or out of the room. Thus, after someone enters or exits the room, the light remains on for only 15 minutes unless the door opens again and reset the timer for another 15 minutes. If the times listed above are the times at which the door opened from 8:00 to 10:00, approximately how many minutes during this two-hour period was the light off?

Times at Which the Door Opened from 8:00 to 10:00

\begin{tabular{|c|c|c|c|
\hline
8:00 & 8:06 & 8:30 & 9:05

8:03 & 8:10 & 8:31 & 9:11

8:04 & 8:18 & 8:54 & 9:29

8:04 & 8:19 & 8:57 & 9:31

\hline
\end{tabular

(1) 10

(2) 25

(3) 35

(4) 40

(5) 70

Correct Answer:

(2) 25

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Question 3:

What is the value of x?

(1) The average of x, y, and z is 10.

(2) The sum of y and z is 25.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer:

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

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Question 4:

A company's revenue increased by 20% in the first year and then decreased by 10% in the second year. What is the net percentage change in revenue over the two years?

(A) 8% increase

(B) 10% increase

(C) 12% increase

(D) 15% increase

(E) 30% increase

Correct Answer:

(A) 8% increase

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Question 5:

A jar contains red, blue, and green marbles. The ratio of red to blue marbles is 3:4, and the ratio of blue to green marbles is 2:5. What is the ratio of red to green marbles?

(A) 3:10

(B) 3:5

(C) 6:20

(D) 8:15

(E) 15:8

Correct Answer:

(A) 3:10

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Question 6:

The average score of 5 students in a test is 80. If the scores of 3 of these students are 75, 82, and 88, what is the average score of the other two students?

(A) 75

(B) 78

(C) 80

(D) 82

(E) 85

Correct Answer:

(A) 75

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Question 7:

A store sells two types of candies: Type A at
(5 per pound and Type B at
)8 per pound. If a mixture of these candies weighs 10 pounds and costs
(6.20 per pound, how many pounds of Type A candy are in the mixture?

(A) 4 pounds

(B) 5 pounds

(C) 6 pounds

(D) 7 pounds

(E) 8 pounds

Correct Answer:

(C) 6 pounds

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Question 8:

What is the probability that a randomly chosen student from a class is a girl?

(1) There are 30 students in the class.

(2) The ratio of boys to girls in the class is 2:3.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer:

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

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Question 9:

What is the value of y?

(1) y is 20% greater than x.

(2) x + y = 55.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(D) EACH statement ALONE is sufficient.

(E) Statements (1) and (2) TOGETHER are NOT sufficient.

Correct Answer:

(C) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

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Question 10:

A set of data consists of the numbers: 5, 8, 12, 15, 20.

Part 1: The median of the data set is equal to the mean of the data set.

Part 2: If the number 10 is added to the data set, the new median will be less than the original median.

Evaluation: Part 1: False. Part 2: False.

Correct Answer:

The provided evaluation is incorrect. The correct evaluation is Part 1: True, Part 2: True.

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