
Question 1:

The perimeter of rectangle A is 200 meters. The length of rectangle B is 10 meters less than the length of rectangle A and the width of rectangle B is 10 meters more than the width of rectangle A. If rectangle B is a square, what is the width, in meters, of rectangle A? [Official GMAT-2018]

Correct Answer:

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Question 2:

Of the 150 houses in a certain development, 60 percent have air-conditioning, 50 percent have a sunporch, and 30 percent have a swimming pool. If 5 of the houses have all three of these amenities and 5 have none of them, how many of the houses have exactly two of these amenities? [Official GMAT-2018]

Correct Answer:

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Question 3:

Al and Ben are drivers for SD Trucking Company. One snowy day, Ben left SD at 8:00 a.m. heading east and Al left SD at 11:00 a.m. heading west. At a particular time later that day, the dispatcher retrieved data from SD's vehicle tracking system. The data showed that, up to that time, Al had averaged 40 miles per hour and Ben had averaged 20 miles per hour. It also showed that Al and Ben had driven a combined total of 240 miles. At what time did the dispatcher retrieve data from the vehicle tracking system? [Official GMAT-2018]

Correct Answer:

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Question 4:

If m and p are positive integers and $m^2 + p^2 < 100$, what is the greatest possible value of mp ? [Official GMAT-2018]

Correct Answer:

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Question 5:

If the sum of the reciprocals of two consecutive odd integers is $\frac{12}{35}$, then the greater of the two integers is [Official GMAT-2018]

Correct Answer:

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Question 6:

How many integers between 1 and 16, inclusive, have exactly 3 different positive integer factors? (Note: 6 is NOT such an integer because 6 has 4 different positive integer factors: 1, 2, 3, and 6.) [Official GMAT-2018]

Correct Answer:

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Question 7:

For each student in a certain class, a teacher adjusted the student's test score using the formula $y = 0.8x + 20$, where x is the student's original test score and y is the student's adjusted test score. If the standard deviation of the original test scores of the students in the class was 20, what was the standard deviation of the adjusted test scores of the students in the class? [Official GMAT-2018]

Correct Answer:

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Question 8:

The sum of the weekly salaries of 5 employees is (3,250. If each of the 5 salaries is to increase by 10 percent, then the average (arithmetic mean) weekly salary per employee will increase by [Official GMAT-2018]

Correct Answer:

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Question 9:

A manufacturer makes and sells 2 products, P and Q. The revenue from the sale of each unit of P is (20.00 and the revenue from the sale of each unit of Q is)17.00. Last year the manufacturer sold twice as many units of Q as P. What was the manufacturer's average (arithmetic mean) revenue per unit sold of these 2 products last year? [Official GMAT-2018]

Correct Answer:

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Question 10:

In a numerical table with 10 rows and 10 columns, each entry is either a 9 or a 10. If the number of 9s in the n th row is $n - 1$ for each n from 1 to 10, what is the average (arithmetic mean) of all the numbers in the table? [Official GMAT-2018]

Correct Answer:

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Question 11:

Team A and Team B are competing against each other in a game of tug-of-war. Team A, consisting of 3 males and 3 females, decides to lineup male, female, male, female, male, female. The lineup that Team A chooses will be one of how many different possible lineups? [Official GMAT-2018]

Correct Answer:

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Question 12:

Clarissa will create her summer reading list by randomly choosing 4 books from the 10 books approved for summer reading. She will list the books in the order in which they are chosen. How many different lists are possible? [Official GMAT-2018]

Correct Answer:

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Question 13:

As shown in the diagram above, a lever resting on a fulcrum has weights of w_1 pounds and w_2 pounds, located d_1 feet and d_2 feet from the fulcrum. The lever is balanced and $w_1d_1 = w_2d_2$. Suppose w_1 is 50 pounds and w_2 is 30 pounds. If d_1 is 4 feet less than d_2 , what is d_2 , in feet? [Official GMAT-2018]

Correct Answer:

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Question 14:

When a subscription to a new magazine was purchased for m months, the publisher offered a discount of 75 percent off the regular monthly price of the magazine. If the total value of the discount was equivalent to buying the magazine at its regular monthly price for 27 months, what was the value of m ? [Official GMAT-2018]

Correct Answer:

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Question 15:

Of the 300 subjects who participated in an experiment using virtual-reality therapy to reduce their fear of heights, 40 percent experienced sweaty palms, 30 percent experienced vomiting, and 75 percent experienced dizziness. If all of the subjects experienced at least one of these effects and 35 percent of the subjects experienced exactly two of these effects, how many of the subjects experienced only one of these effects? [Official GMAT-2018]

Correct Answer:

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Question 16:

Each machine at a toy factory assembles a certain kind of toy at a constant rate of one toy every 3 minutes. If 40 percent of the machines at the factory are to be replaced by new machines that assemble this kind of toy at a constant rate of one toy every 2 minutes, what will be the percent increase in the number of toys assembled in one hour by all the machines at the factory, working at their constant rates? [Official GMAT-2018]

Correct Answer:

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Question 17:

The table shows the amount budgeted and the amount spent for each of three accounts in a certain company. For which of these accounts did the amount spent differ from the amount budgeted by more than 6 percent of the amount budgeted? [Official GMAT-2018]

Correct Answer:

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Question 18:

Cheryl purchased 5 identical hollow pine doors and 6 identical solid oak doors for the house she is building. The regular price of each solid oak door was twice the regular price of each hollow pine door. However, Cheryl was given a discount of 25% off the regular price of each solid oak door. If the regular price of each hollow pine door was (40, what was the total price of all 11 doors? [Official GMAT-2018]

Correct Answer:

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Question 19:

In a certain medical survey, 45 percent of the people surveyed had the type A antigen in their blood and 3 percent had both the type A antigen and the type B antigen. Which of the following is closest to the percent of those with the type A antigen who also had the type B antigen? [Official GMAT-2018]

Correct Answer:

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Question 20:

An equilateral triangle that has an area of $9\sqrt{3}$ is inscribed in a circle. What is the area of the circle? [Official GMAT-2018]

Correct Answer:

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Question 21:

According to the table shown, the estimated number of home-schooled students in State A is approximately what percent greater than the number in State D?

Correct Answer:

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Question 22:

A certain financial institution reported that its assets totaled (2,377,366.30 on a certain day. Of this amount,)31,724.54 was held in cash. Approximately what percent of the reported assets was held in cash on that day?

Correct Answer:

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Question 23:

Company Q plans to make a new product next year and sell each unit of this new product at a selling price of (2. The variable costs per unit in each production run are estimated to be 40% of the selling price, and the fixed costs for each production run are estimated to be)5,040. Based on these estimated costs, how many units of the new product will Company Q need to make and sell in order for their revenue to equal their total costs for each production run?

Correct Answer:

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Question 24:

On a certain day, a bakery produced a batch of rolls at a total production cost of (300. On that day, $\frac{4}{5}$ of the rolls in the batch were sold, each at a price that was 50% greater than the average (arithmetic mean) production cost per roll. The remaining rolls in the batch were sold the next day, each at a price that was 20% less than the price of the day before. What was the bakery's profit on this batch of rolls?

Correct Answer:

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Question 25:

Judy bought a quantity of pens in packages of 5 for \$0.80 per package. She sold all of the pens in packages of 3 for \$0.60 per package. If Judy's profit from the pens was \$8.00, how many pens did she buy and sell?

Correct Answer:

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Question 26:

A worker carries jugs of liquid soap from a production line to a packing area, carrying 4 jugs per trip. If the jugs are packed into cartons that hold 7 jugs each, how many jugs are needed to fill the last partially filled carton after the worker has made 17 trips?

Correct Answer:

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Question 27:

During a certain time period, Car X traveled north along a straight road at a constant rate of 1 mile per minute and used fuel at a constant rate of 5 gallons every 2 hours. During this time period, if Car X used exactly 3.75 gallons of fuel, how many miles did Car X travel?

Correct Answer:

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