

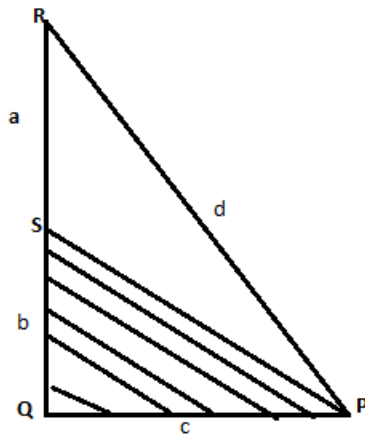


GMAT QUANT

[PROBLEM SOLVING]
- Questions

- The centre of the circle is $(10, -4)$. The point $(2, -4)$ is inside the circle and $(10, 14)$ is outside the circle. If the radius of the circle is 'r', an integer, how many possible values are there for 'r'?
 - 7
 - 8
 - 9
 - 10
 - 12
- Alexa and Jasmine had a burger party on Sunday night and they had some leftovers. They decided to have the leftovers for dinner on Monday. The leftovers consist of 8 burgers, all with different sauces and 4 desserts. In how many different ways can Alexa and Jasmine eat leftovers if they eat 2 burgers each and 1 dessert?
 - 720
 - 1440
 - 2640
 - 4580
 - 5040
- In a country Z, 10% of the people do not have a diploma but have the job of their choice, and 25% of the people who do not have the job of their choice have a diploma. If 40% of the people have the job of their choice, what percent of the people have a diploma?
 - 35%
 - 45%
 - 55%
 - 65%
 - 75%
- If h is the product of the positive integers from 1 to 12, inclusive, and if a, b, c, d and e are positive integers such that $h = 2^a 3^b 5^c 7^d 11^e$, then what is the value of $a - b + c - d + e$?
 - 0
 - 5
 - 6
 - 7
 - 9
- Michel leaves New Jersey by road for Las Vegas at 3 pm and travels at a constant speed of 100mph. After an hour, his friend Jimmy leaves Las Vegas for New Jersey at a constant speed of 45mph. The distance between them is 3000 miles. As they are travelling towards each other, they decided to meet. At what time will they meet?
 - 12 pm
 - 12 am
 - 11 am
 - 11 pm
 - 1 pm

6. 30% of the employees in a factory are labourers and all the remaining employees are executives. The annual income of each labourer is \$400. The annual income of each executive is \$500. What is the average annual income of all the employees in the factory together?
- A. 400
B. 425
C. 450
D. 470
E. 500
7. If a junior lawyer receives a commission of 10% of the cases that he has booked in a month and the number of cases booked by the junior lawyer minus the junior's commission was \$25200. What is the commission received by the junior lawyer that month?
- A. 2520
B. 2800
C. 26000
D. 27000
E. 28000
- 8.

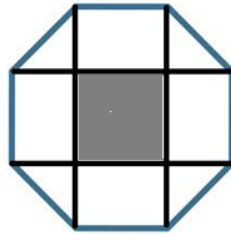


If the triangle PQR shown above is a right angled triangle at Q and the shaded area is one half the area of the triangle PQR, then what is the length of the line segment PS?

- A. $\frac{1}{2}d$
B. $\sqrt{2c^2 + a^2}$
C. $\sqrt{d^2 - 3b^2}$
D. $\sqrt{a^2 + b^2}$
E. $\sqrt{b^2 + d^2}$

9. If the function $g(x)$ is defined as $g(x) = -(-1/2^x)$ where “ x ” is a positive integer, then the sum of the first 10 terms will be?
- Between $-1/2$ and $-1/4$
 - Between $-1/4$ and $-1/8$
 - Between $1/8$ and $1/4$
 - Between $1/4$ and $1/2$
 - Between $1/2$ and 1

10.



In the above regular octagon (8-sided polygon), the shaded region is a square and it's area is 4 square units, then what is the area of the whole regular octagon?

- 4
- 8
- 16
- $8+8\sqrt{2}$
- $16+16\sqrt{2}$

BYJU'S - GMAT

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