File Name: GMATbuster's Weekly Quant Quiz

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Requested from: 122.176.150.143 on October 22, 2018

1 There are 2 circular cylinders X and Y, and both cylinders contain wat
http://gmatclub.com/forum/topic-278256.html

Tags: Difficulty: 600-700 Level | Arithmetic | Geometry

Problem Solving (PS)

There are 2 circular cylinders X and Y, and both cylinders contain water inside. Cylinder X has 5π square inches as the base area and 6 inches as the height of the water inside, and cylinder Y has 10π square inches as the base area and 2 inches as the height of the water inside. If the height of the water becomes the same when the water drawn from cylinder X is poured into cylinder Y, what is the height of water in these cylinders, in inches?

A. 2.5
B. 3
C. $\frac{10}{3}$
D. 4
E. 4.5

Weekly Quant Quiz #3 Question No 1

2 In a certain company, the average (arithmetic mean) salary of finance
http://gmatclub.com/forum/topic-278258.html

Tags: Statistics and Sets Problems | Difficulty: 700-Level

Data Sufficiency (DS)

In a certain company, the average (arithmetic mean) salary of finance executives is $x and the average (arithmetic mean) salary of marketing executives is $y. Is the average (arithmetic mean) salary of finance executives and marketing executives combined greater than $\frac{(x+y)}{2}$?

(1) The number of the finance executives is less than the number of the marketing executives.
(2) x is $10,000 less than y.

Weekly Quant Quiz #3 Question No 2

3 There are 64 big cube-shaped bricks painted with yellow. How many smal
http://gmatclub.com/forum/topic-278259.html

Tags: Difficulty: 600-700 Level | Combinations

Problem Solving (PS)

There are 64 big cube-shaped bricks painted with yellow. How many small bricks are required to cover the entire outer surface of the big cube so that the yellow paint does not show at all?

A. 32
B. 64
C. 96
D. 180
E. 216

Weekly Quant Quiz #3 Question No 3

4 There are 1,280 books at a library. Everyone borrows these books at le
http://gmatclub.com/forum/topic-278261.html

Tags: Algebra | Difficulty: 700-Level

Data Sufficiency (DS)

There are 1,280 books at a library. Everyone borrows these books at least one, and maximum 10. If all books were borrowed, is the number of people who borrowed greater than 240?

1) 65 people borrowed either 1 or 2 books
2) 120 people borrowed either 3 or 4 book

Weekly Quant Quiz #3 Question No 4

5 If the sum of all positive factors of an integer n is 2n, n is a perfe
http://gmatclub.com/forum/topic-278262.html

Tags: Difficulty: 700-Level | Number Properties

Problem Solving (PS)

If the sum of all positive factors of an integer n is 2n, n is a perfect number. For example, the factors of 6 are 1, 2, 3, and 6, and from the sum 1+2+3+6=12=2*6, the sum of the factors of 6 becomes 12=2*6, thus 6 is the first perfect number. Then, what is the number of factors of the second perfect number?

A. 4
B. 5
C. 6
D. 8
E. 12

Weekly Quant Quiz #3 Question No 5

6 If a and b are positive integers, is a^4-b^4 divisible by 4?
http://gmatclub.com/forum/topic-278263.html

Tags: Difficulty: 700-Level | Number Properties

Data Sufficiency (DS)

If a and b are positive integers, is a^4-b^4 divisible by 4?

1) $a+b$ is divisible by 4
2) The remainder is 2 when a^2+b^2 is divided by 4

Weekly Quant Quiz #3 Question No 6

7 If f(x,y) = [m][fraction]10x/(x+2y)[/fraction]+[fraction]20y/(2x+y)[/f
http://gmatclub.com/forum/topic-278264.html

Tags: Difficulty: 700-Level | Functions and Custom Characters

Problem Solving (PS)

Weekly Quant Quiz #3 Question No 7

If f(x,y) = $\frac{10x}{&\#40;x+2y&\#41;}+\frac{20y}{&\#40;2x+y&\#41;}$, where 0<x<y, which of the following could be the value of f(x,y)?

A. 9
B. 10
C. 19
D. 20
E. 23

8 For positive integers n and m (n>m), is the average (arithmetic mean)

http://gmatclub.com/forum/topic-278265.html

Tags: Difficulty: 700-Level | Number Properties

Data Sufficiency (DS)

For positive integers n and m (n>m), is the average (arithmetic mean) of 4(10^n), 4(10^(n-1)), ..., and 4(10^(n-m)) an integer?

1) m<6
2) n=10

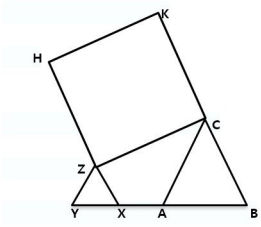
Weekly Quant Quiz #3 Question No 8

9 2 equilateral triangles XYZ and ABC are shown as above figure. If YX =

http://gmatclub.com/forum/topic-278266.html

Tags: Geometry | Difficulty: 600-700 Level

Problem Solving (PS)



2 equilateral triangles XYZ and ABC are shown as above figure. If YX = XA=m and AB=n, what is the area of a square CKHZ, in terms of m and n?

A. $\sqrt{3m^2+n^2}$

B. $3m^2+n^2$

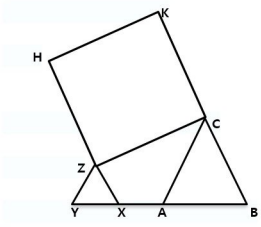
C. $\sqrt{3}m^2+n^2$

D. $\sqrt{m^2+3n^2}$

E. m^2+3n^2

Weekly Quant Quiz #3 Question No 9

Spoiler: ::
Attachment:



PS Question 9.jpg [16.87 KiB | Viewed 520 times]

10 Tom started a company with 5 of his friends from the college. They mad
http://gmatclub.com/forum/topic-278267.html

Tags: Difficulty: 700-Level | Statistics and Sets Problems

Data Sufficiency (DS)

Tom started a company with 5 of his friends from the college. They made a software and sold it. Tom sold 15, and his friends each sold at least 1. Did Tom sell more than at least 3 of his friends?

1) The median number of software sold by 5 friends is 14.
2) The average number of software sold by 5 friends is 9.

Weekly Quant Quiz #3 Question No 10

The list of ANSWERS:

#	Answer
1	C
2	C
3	C
4	C
5	C
6	D
7	C
8	A
9	B
10	D