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1 How many 7-digit numbers are having sum of digits ODD?

<http://gmatclub.com/forum/topic-278900.html>

Tags: Difficulty: 600-700 Level | Number Properties

Problem Solving (PS)

How many 7-digit numbers are having sum of digits ODD?

- A) 3505000
- B) 4350200
- C) 4500000
- D) 4520500
- E) 5502000

Weekly Quant Quiz #4 Ques 1

2 It is given that p, q, and r are positive integers, where p is an odd

<http://gmatclub.com/forum/topic-278902.html>

Tags: Number Properties | Difficulty: 700-Level

Data Sufficiency (DS)

It is given that p, q, and r are positive integers, where p is an odd number and $r = p^2 + q^2 + 4$. Is q^3 divisible by 8?

- (1) $r = 8k - 3$ where k is a positive integer.
- (2) When $(r-p+1)$ is divided by 2, it leaves a remainder.

Weekly Quant Quiz #4 Ques 2

3 Which of the following must be true?

<http://gmatclub.com/forum/topic-278903.html>

Tags: Algebra | Number Properties | Difficulty: 700-Level

Problem Solving (PS)

Which of the following must be true?

- A) A Linear equation in one variable always gives a unique value of x.
- B) A Quadratic equation in one variable always gives two unique value of x.
- C) $\#40; \text{EVEN} \#41; N$ is always EVEN, Where N is an integer
- D) $\#40; \text{ODD} \#41; N$ can never be EVEN, Where N is an integer
- E) $|x|$ is always Positive.

Weekly Quant Quiz #4 Ques 3

4 For positive integers p and q, p/q when expressed as a decimal, is a t

<http://gmatclub.com/forum/topic-278904.html>

Tags: Difficulty: 700-Level | Number Properties

Data Sufficiency (DS)

For positive integers p and q, p/q when expressed as a decimal, is a terminating decimal?

- (1) p is the sum of three consecutive odd multiples of 5.
- (2) $2q^2 + 144 = 36q$

Weekly Quant Quiz #4 Ques 4

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5 If $X > X / |X|$, Which of the following gives solution set of integer

<http://gmatclub.com/forum/topic-278905.html>

Tags: Difficulty: 700-Level | Absolute Values/Modulus

Problem Solving (PS)

If $X > X / |X|$, Which of the following gives solution set of integer X?

- A. $X > 1$
- B. $X > -1$
- C. $|X| < 1$
- D. $|X| = 1$
- E. $|X|^2 > 1$

Weekly Quant Quiz #4 Ques 5

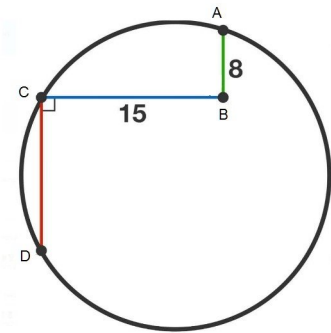
6 What is the area of the above circle?

<http://gmatclub.com/forum/topic-278906.html>

Tags: Difficulty: 700-Level | Geometry

Data Sufficiency (DS)

Attachment:



Q2.jpg [30.25 KiB | Viewed 328 times]

What is the area of the above circle?

- 1) Angle ABC = 90 deg
- B) CD = 12

Weekly Quant Quiz #4 Ques 6

7 There is a circular garden of Diameter = r. Three points are chosen in

<http://gmatclub.com/forum/topic-278907.html>

Tags: Difficulty: 700-Level | Geometry

Problem Solving (PS)

There is a circular garden of Diameter = r. Three points are chosen independently and at random on the boundary of the Garden. What is the approximate probability that none of the three points lies more than a straight-line distance of $r/2$ away from any other of the three points?

- (A) 1/9
- (B) 1/12
- (C) 1/18
- (D) 1/24
- (E) 1/27

Weekly Quant Quiz #4 Ques 7

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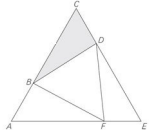
8 Equilateral triangle BDF is inscribed in equilateral triangle ACE, as

<http://gmatclub.com/forum/topic-278908.html>

Tags: Difficulty: 700-Level | Geometry

Data Sufficiency (DS)

Attachment:



Q.jpg [6.61 KiB | Viewed 254 times]

Equilateral triangle BDF is inscribed in equilateral triangle ACE, as shown in the figure above. The shaded region is what fraction of the area of triangle ACE ?

- (1) $\angle DFE = 90^\circ$
- (2) The length of AF is $10\sqrt{3}$

Weekly Quant Quiz #4 Ques 8

9 Set A contains infinite number of integers. Are all the integers in Set

<http://gmatclub.com/forum/topic-278909.html>

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

Data Sufficiency (DS)

Set A contains infinite number of integers. Are all the integers in Set A even?

- 1) Infinite integers in set A are divisible by 2.
- 2) The difference by any 2 integers in Set A is a multiple of 4.

Weekly Quant Quiz #4 Ques 9

10 If the diameter of the given circle is 36, what is the length of the a

<http://gmatclub.com/forum/topic-278910.html>

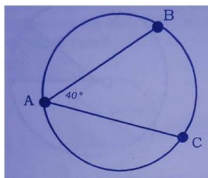
Tags: Difficulty: 600-700 Level | Geometry

Problem Solving (PS)

If the diameter of the given circle is 36, what is the length of the arc ABC?

- A) 8π
- B) 22π
- C) 28π
- D) 32π
- E) Cannot be determined

Weekly Quant Quiz #4 Ques 10



Ques.jpg [16.03 KiB | Viewed 313 times]

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The list of ANSWERS:

Answer

1 C

2 D

3 D

4 C

5 A

6 C

7 B

8 A

9 C

10 E

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