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Requested from: **122.176.146.193 on November 11, 2018**

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1 Triangle ABC is a right triangle with angle ACB as its right an

<http://gmatclub.com/forum/topic-281267.html>

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

Problem Solving (PS)

GMATbuster's Weekly Quant Quiz#8 Ques #1

For Questions from earlier quizzes: [Click Here](#)

Triangle ABC is a right triangle with $\angle ACB$ as its right angle, $\angle ABC = 60^\circ$, and $AB = 10$ cm. Let P be randomly chosen inside triangle ABC, and extend BP to meet AC at D. What is the probability that $BD > 5\sqrt{2}$?

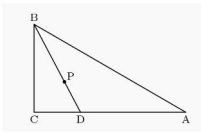
A) $(2-\sqrt{2})/2$

B) $1/3$

C) $(3-\sqrt{3})/3$

D) $1/2$

E) $(5-\sqrt{5})/5$



1 (2).jpg [7.72 KiB | Viewed 196 times]

2 A gnome who was 16 Inches tall swallowed a pill that caused film to grow

<http://gmatclub.com/forum/topic-281268.html>

Tags: Difficulty: 600-700 Level | Algebra

Problem Solving (PS)

GMATbuster's Weekly Quant Quiz#8 Ques #2

For Questions from earlier quizzes: [Click Here](#)

A gnome who was 16 Inches tall swallowed a pill that caused film to grow by a certain factor x every minute. After 6 minutes, the gnome was 1,024 Inches tall. He then took another pill that reduced his height by a certain factor y every minute. If this reduced the gnome's height by twice as much as factor x increased his height, how many minutes did it take the gnome to grow to the maximum height and then shrink to a height less than his original height of 16 Inches?

A) 7

B) 8

C) 9

D) 10

E) 11

3 Jack was asked by her teacher to subtract 3 from a certain number and

<http://gmatclub.com/forum/topic-281269.html>

Tags: Difficulty: Sub-600 Level | Algebra

Problem Solving (PS)

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GMATbuster's Weekly Quant Quiz#8 Ques #3

For Questions from earlier quizzes: [Click Here](#)

Jack was asked by her teacher to subtract 3 from a certain number and then divide the result by 9. Instead, she subtracted 9 and then divided the result by 3, giving an answer of 43. What would her answer have been had she worked the problem correctly?

- A) 15
- B) 34
- C) 43
- D) 51
- E) 138

4 Karen purchased 10 snares of stock for x dollars per snare. She later

<http://gmatclub.com/forum/topic-281270.html>

Tags: Difficulty: 600-700 Level | Word Problems

Data
Sufficiency
(DS)

GMATbuster's Weekly Quant Quiz#8 Ques #4

For Questions from earlier quizzes: [Click Here](#)

Karen purchased 10 snares of stock for x dollars per snare. She later sold the 10 snares for y dollars per snare but paid z percent tax on her profit. After tax, what was the profit Karen made on the sale of her stock?

- 1) $y - x = \$5000$
- 2) If she had paid 10 percent more tax, Karen's profit would have been \$30,000.

5 Each of the small circles in the figure has radius one. The innermost

<http://gmatclub.com/forum/topic-281271.html>

Tags: Difficulty: 600-700 Level | Geometry

Problem
Solving (PS)

GMATbuster's Weekly Quant Quiz#8 Ques #5

For Questions from earlier quizzes: [Click Here](#)

Each of the small circles in the figure has radius one. The innermost circle is tangent to the six circles that surround it, and each of those circles is tangent to the large circle and to its small-circle neighbors. Find the area of the shaded region.

- A) π
- B) 1.5π
- C) 2π
- D) 3π
- E) 3.5π



5.jpg [5.89 KiB | Viewed 104 times]

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6 If p is a positive Integer, what is the units digit of p ?

<http://gmatclub.com/forum/topic-281272.html>

Tags: Difficulty: 600-700 Level | Number Properties

Data
Sufficiency
(DS)

GMATbuster's Weekly Quant Quiz#8 Ques #6

For Questions from earlier quizzes: [Click Here](#)

If p is a positive Integer, what is the units digit of p ?

1) p is divisible by 14, 15, 16, and n .

2) $\frac{p}{40} = k$, where k is an Integer.

7 Alice, Bob, and Charlie were on a hike and were wondering how far away

<http://gmatclub.com/forum/topic-281276.html>

Tags: Difficulty: 600-700 Level | Algebra | Word Problems

Problem
Solving (PS)

GMATbuster's Weekly Quant Quiz#8 Ques #7

For Questions from earlier quizzes: [Click Here](#)

Alice, Bob, and Charlie were on a hike and were wondering how far away the nearest town was. When Alice said, "We are at least 6 miles away," Bob replied, "We are at most 5 miles away." Charlie then remarked, "Actually the nearest town is at most 4 miles away." It turned out that none of the three statements were true. Let d be the distance in miles to the nearest town. Which of the following intervals is the set of all possible values of d ?

A) (0,4)

B) (4,5)

C) (4,6)

D) (5,6)

E) (5,∞)

8 What is the units digit of positive Integer x ? 1) 7, 15, 24, and n are

<http://gmatclub.com/forum/topic-281277.html>

Tags: Difficulty: 600-700 Level | Number Properties

Data
Sufficiency
(DS)

GMATbuster's Weekly Quant Quiz#8 Ques #8

For Questions from earlier quizzes: [Click Here](#)

What is the units digit of positive Integer x ?

1) 7, 15, 24, and n are all factors of x .

2) $6! < x < 7!$

9 A paper triangle with sides of lengths 3, 4, and 5 inches, as shown, is

<http://gmatclub.com/forum/topic-281279.html>

Tags: Difficulty: 600-700 Level | Geometry

Problem
Solving (PS)

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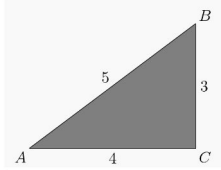


GMATbuster's Weekly Quant Quiz#8 Ques #9

For Questions from earlier quizzes: [Click Here](#)

A paper triangle with sides of lengths 3, 4, and 5 inches, as shown, is folded so that point A falls on point B. What is the length in inches of the crease?

- A) $(1 + \sqrt{2})/2$
- B) $\sqrt{3}$
- C) $7/4$
- D) $15/8$
- E) 2



9.jpg [8.42 KiB | Viewed 129 times]

10 A certain computer program generates 4-digit even numbers using the f

<http://gmatclub.com/forum/topic-281280.html>

Tags: Difficulty: 600-700 Level | Number Properties

Problem Solving (PS)

GMATbuster's Weekly Quant Quiz#8 Ques #10

For Questions from earlier quizzes: [Click Here](#)

A certain computer program generates 4-digit even numbers using the following numbers: 0, 1, 2, 3, 4, and 5. If the digits can be repeated, what is the probability that a number formed by this program will be a multiple of 4?

- A) 16.7%
- B) 25%
- C) 33.3%
- D) 50%
- E) 75%

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The list of ANSWERS:

Answer

1 C

2 D

3 A

4 C

5 C

6 D

7 D

8 A

9 D

10 D

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