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File Name: GMATbuster's Quiz

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1 Right triangle ABC has leg lengths  $AB=20$  and  $BC=21$ . Including  $AB$  and  $BC$ ,  
<http://gmatclub.com/forum/topic-281806.html>

Problem Solving (PS)

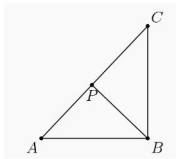
Tags: Difficulty: 600-700 Level | Geometry

### GMATbuster's Weekly Quant Quiz#9 Ques #1

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

Right triangle ABC has leg lengths  $AB=20$  and  $BC=21$ . Including  $AB$  and  $BC$ , how many line segments with integer length can be drawn from vertex  $B$  to a point on hypotenuse  $AC$ ?

- A) 5
- B) 8
- C) 12
- D) 13
- E) 15



Q1.jpg [ 7.58 KiB | Viewed 157 times ]

2 Two different positive numbers  $a$  and  $b$  each differ from their reciprocals by 1. What is  $a+b$  ?  
<http://gmatclub.com/forum/topic-281807.html>

Problem Solving (PS)

Tags: Difficulty: 600-700 Level | Algebra

### GMATbuster's Weekly Quant Quiz#9 Ques #2

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

Two different positive numbers  $a$  and  $b$  each differ from their reciprocals by 1. What is  $a+b$  ?

- A) 1
- B) 2
- C)  $\sqrt{3}$
- D)  $\sqrt{6}$
- E) 3

3 Tina randomly selects two distinct numbers from the set  $\{ 1, 2, 3, 4,$   
<http://gmatclub.com/forum/topic-281808.html>

Problem Solving (PS)

Tags: Difficulty: 700-Level | Probability

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### GMATbuster's Weekly Quant Quiz#9 Ques #3

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

Tina randomly selects two distinct numbers from the set  $\{1, 2, 3, 4, 5\}$ , and Sergio randomly selects a number from the set  $\{1, 2, \dots, 10\}$ . What is the probability that Sergio's number is larger than the sum of the two numbers chosen by Tina?

- A)  $2/5$
- B)  $9/20$
- C)  $1/2$
- D)  $11/20$
- E)  $24/25$

4 When 7 fair standard 6-sided dice are thrown, the probability that the

<http://gmatclub.com/forum/topic-281809.html>

Tags: Difficulty: 700-Level | Probability

Problem Solving (PS)

### GMATbuster's Weekly Quant Quiz#9 Ques 4

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

When 7 fair standard 6-sided dice are thrown, the probability that the sum of the numbers on the top faces is 10 can be written as

$\frac{n}{6^7}$ , where n is a positive integer. What is n?

- A) 42
- B) 49
- C) 56
- D) 63
- E) 84

5 A scanning code consists of a 7 times 7 grid of squares, with some of

<http://gmatclub.com/forum/topic-281810.html>

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

Problem Solving (PS)

### GMATbuster's Weekly Quant Quiz#9 Ques 5

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

A scanning code consists of a 7 times 7 grid of squares, with some of its squares colored black and the rest colored white. There must be at least one square of each color in this grid of 49 squares. A scanning code is called symmetric if its look does not change when the entire square is rotated by a multiple of 90 deg counterclockwise around its center, nor when it is reflected across a line joining opposite corners or a line joining midpoints of opposite sides. What is the total number of possible symmetric scanning codes?

- A) 510
- B) 1022
- C) 8190
- D) 8192
- E) 65534

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6 Farmer Pythagoras has a field in the shape of a right triangle. The ri

<http://gmatclub.com/forum/topic-281811.html>

Tags: Difficulty: 600-700 Level | Geometry

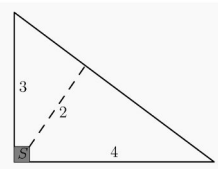
Problem Solving (PS)

### GMATbuster's Weekly Quant Quiz#9 Ques 6

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

Farmer Pythagoras has a field in the shape of a right triangle. The right triangle's legs have lengths 3 and 4 units. In the corner where those sides meet at a right angle, he leaves a small unplanted square S so that from the air it looks like the right angle symbol. The rest of the field is planted. The shortest distance from S to the hypotenuse is 2 units. What fraction of the field is planted?

- A) 25/27
- B) 26/27
- C) 73/75
- D) 145/147
- E) 74/75



Ques.jpg [ 9.82 KiB | Viewed 137 times ]

7 GMATbuster's Weekly Quant Quiz#9 Ques 7

<http://gmatclub.com/forum/topic-281812.html>

Tags: Difficulty: 600-700 Level | Absolute Values/Modulus | Algebra

Problem Solving (PS)

### GMATbuster's Weekly Quant Quiz#9 Ques 7

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

How many ordered pairs of real numbers (x,y) satisfy the following system of equations?

$$\begin{cases} x+3y=3 \\ ||x|-|y||=1 \end{cases}$$

- A) 1
- B) 2
- C) 3
- D) 4
- E) 8

8 what is the value of xy? 1) x and y are prime numbers.

<http://gmatclub.com/forum/topic-281813.html>

Tags: Difficulty: 600-700 Level | Number Properties

Data Sufficiency (DS)

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### GMATbuster's Weekly Quant Quiz#9 Ques 8

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

- what is the value of  $xy$ ?
- $x$  and  $y$  are prime numbers.
  - $3^x * 5^y = 75$

9 In a triangle ABC, BC is produced to D and bisectors of angle ABC and

<http://gmatclub.com/forum/topic-281814.html>

Tags: Difficulty: 700-Level | Geometry

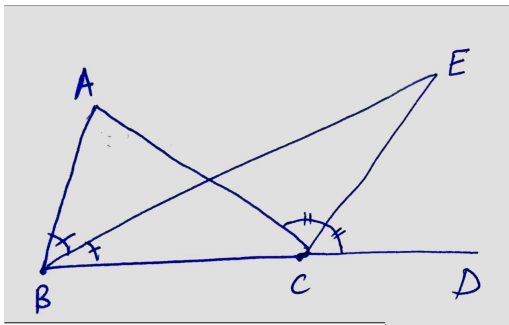
Data Sufficiency (DS)

### GMATbuster's Weekly Quant Quiz#9 Ques 9

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

In a triangle ABC, BC is produced to D and bisectors of angle ABC and angle BCD meet at E. Is Angle BEC < 30 deg?

- Angle BAC = 60 deg
- Angle BCA = 40 deg



Q9.jpg [ 35.93 KiB | Viewed 121 times ]

10 The population of city n is 100,000 greater than the population of cit

<http://gmatclub.com/forum/topic-281816.html>

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

Data Sufficiency (DS)

### GMATbuster's Weekly Quant Quiz#9 Ques 10

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

The population of city n is 100,000 greater than the population of city m. If both cities increase in population by  $x$  percent in a given year, now much greater is the population of city n than the population of city m after the increase?

- $x=10$
- The original population of city m was  $\frac{10}{11}$  of the original population of city n.

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## The list of ANSWERS:

# Answer

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1 D

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2 C

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3 A

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4 E

---

5 B

---

6 D

---

7 C

---

8 C

---

9 A

---

10 A

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