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**File Name: GMATbusters Weekly Quant Quiz**

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1 If  $x$  is a number such that  $x^2 - 3x + 2 = 0$  and  $x^3 + 2x^2 - x - 2 = 0$   
<http://gmatclub.com/forum/topic-279507.html>

Problem Solving (PS)

Tags: Difficulty: 600-700 Level | Algebra

If  $x$  is a number such that  $x^2 - 3x + 2 = 0$  and  $x^3 + 2x^2 - x - 2 = 0$ , what is the value of  $x + 3$ ?

- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 1

2 If  $P$  and  $Q$  are integers, is  $\frac{10^{2P} + Q}{3}$  an integer?  
<http://gmatclub.com/forum/topic-279508.html>

Data Sufficiency (DS)

Tags: Number Properties | Difficulty: 700-Level

If  $P$  and  $Q$  are integers, is  $\frac{10^{2P} + Q}{3}$  an integer?

- (1)  $Q = 5$
- (2)  $P \cdot Q$  is even

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 2

3 One night Bran had a dream in which he grew a constant amount each hour  
<http://gmatclub.com/forum/topic-279509.html>

Problem Solving (PS)

Tags: Difficulty: 600-700 Level | Arithmetic

One night Bran had a dream in which he grew a constant amount each hour from his original height of  $15\frac{1}{4}$  feet. At the end of the third hour, Bran's height was  $\frac{1}{4}$  less than his height at the end of the ninth hour. What was Bran's height, in feet, after the seventh hour?

- A)  $19\frac{1}{4}$
- B)  $41\frac{1}{8}$
- C)  $16\frac{1}{3}$
- D)  $11\frac{1}{2}$
- E) 6

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 3

4 There are  $c$  chocolate chip cookies and  $r$  oatmeal raisin cookies in a jar  
<http://gmatclub.com/forum/topic-279510.html>

Data Sufficiency (DS)

Tags: Difficulty: 600-700 Level | Probability

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There are  $c$  chocolate chip cookies and  $r$  oatmeal raisin cookies in a jar. If there are no other cookies in the jar, is the probability of randomly selecting an oatmeal raisin cookie greater than the probability of selecting a chocolate chip cookie?

1)  $\frac{r^2 - rc}{r^2 - c^2} > \frac{c}{r+c}$

2) If  $p$  peanut butter cookies were added to the jar then  $\frac{r}{r+c+p} > \frac{c}{r+c+p}$

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 4

5 A race car can travel 120 mph without any wind. If the car can travel

<http://gmatclub.com/forum/topic-279511.html>

Problem Solving (PS)

Tags: Difficulty: 600-700 Level | Word Problems

A race car can travel 120 mph without any wind. If the car can travel 200 miles with the wind in the same amount of time the car takes to go 100 miles against the wind, what is the speed of the wind?

- A) 24 mph
- B) 30 mph
- C) 40 mph
- D) 45 mph
- E) 60 mph

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 5

6 Circle O is plotted on the coordinate plane. If point A, which is located

<http://gmatclub.com/forum/topic-279512.html>

Data Sufficiency (DS)

Tags: Difficulty: 700-Level | Coordinate Geometry | Geometry

Circle O is plotted on the coordinate plane. If point A, which is located at  $(-3, y)$ , and point B, which is located at  $(x, 4)$  are on the circumference of the circle, what is the value of  $y-x$ ?

- 1) The center of circle O is at the origin of the coordinate plane.
- 2)  $x+y = 1$

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 6

7 In a survey of 100 students who had studied abroad, 60 had studied in

<http://gmatclub.com/forum/topic-279513.html>

Problem Solving (PS)

Tags: Difficulty: 600-700 Level | Overlapping Sets

In a survey of 100 students who had studied abroad, 60 had studied in Australia, 70 had studied in Europe, and 20 studied in neither Europe nor Australia. If 60% of the students who had studied ONLY in Australia had wanted to study in Europe and 40% of the students who had studied ONLY in Europe had wanted to study in Australia, how many students had NOT studied abroad in the location they wanted?

- A) 14
- B) 16
- C) 20
- D) 24
- E) 28

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 7

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8 Mrs. Rhonda's first grade class of 25 students is lined up in two rows

<http://gmatclub.com/forum/topic-279514.html>

Tags: Difficulty: 600-700 Level | Statistics and Sets Problems

Data Sufficiency (DS)

Mrs. Rhonda's first grade class of 25 students is lined up in two rows for a class picture. In the first row, the students are lined up shortest to tallest. This increasing height order continues into the second row. The shortest student in the second row is 42 inches tall while the tallest student in the first row is 38 inches tall. What is the median height of the 25 students in Mrs. Rhonda's class?

- 1) There is one more student in the first row than in the second row.
- 2) The mean height of all the students is 41 inches.

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 8

9 If  $z > 0$ , is  $\frac{x+z}{y+z} > \frac{x}{y}$

<http://gmatclub.com/forum/topic-279515.html>

Tags: Difficulty: 700-Level | Inequalities

Data Sufficiency (DS)

If  $z > 0$ , is  $\frac{x+z}{y+z} > \frac{x}{y}$ ?

- 1)  $0 < x < y$
- 2)  $x < y$

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 9

10 If  $|m-1| = |n+1|$ , what is the value of  $m - n$ ?

<http://gmatclub.com/forum/topic-279516.html>

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

Data Sufficiency (DS)

If  $|m-1| = |n+1|$ , what is the value of  $m - n$ ?

- 1)  $mn > 0$
- 2)  $\frac{m}{n} = -1$

### GMATbuster's Weekly GMAT Quant Quiz #5 Ques No 10

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The list of ANSWERS:

# Answer

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1 D

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2 E

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3 D

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4 D

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5 C

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6 C

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7 A

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8 A

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9 A

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10 D

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