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1 When -17 is divided by 7, the quotient and remainder are :

<http://gmatclub.com/forum/topic-280652.html>

Tags: Difficulty: 600-700 Level | Number Properties

Problem Solving (PS)

When -17 is divided by 7, the quotient and remainder are :

- a. -3 & 4
- b. -2 & 3
- c. 4 & -3
- d. -3 & -2
- e. 2 & -3

### Weekly Quant Quiz #7 Question No 1

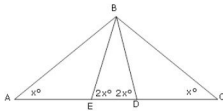
2 In the figure above, ED has a length of 4. What is the length of side

<http://gmatclub.com/forum/topic-280653.html>

Tags: Difficulty: 600-700 Level | Geometry

Data Sufficiency (DS)

Attachment:



2.jpg [ 8.05 KiB | Viewed 248 times ]

In the figure above, ED has a length of 4. What is the length of side AC?

- 1) The perimeter of triangle EBD is 20.
- 2) Side AE = 8.

### Weekly Quant Quiz #7 Question No 2

3 Please refer to the figure above, triangle ABC is an isosceles triang

<http://gmatclub.com/forum/topic-280655.html>

Tags: Difficulty: 600-700 Level | Geometry

Problem Solving (PS)

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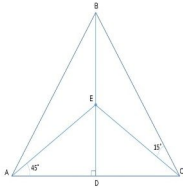
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Attachment:



5.jpg [ 9.71 KiB | Viewed 183 times ]

Please refer to the figure above, triangle ABC is an isosceles triangle with  $AB = BC$  and  $BD$  is the perpendicular dropped from vertex  $B$  to the side  $AC$  where  $D$  is mid point of  $AC$ . Point  $E$  is marked on  $BD$  such that  $\angle DAE = 45$  degree and  $\angle ECB = 15$  degree. What is the ratio of the area of triangle  $BEC$  to the area of the triangle  $ABC$ ?

- A)  $\frac{3 - \sqrt{3}}{6}$
- B)  $\frac{3 + \sqrt{3}}{6}$
- C)  $\frac{5 - \sqrt{3}}{6}$
- D)  $\frac{5 + \sqrt{3}}{3\sqrt{3}}$
- E) Cannot be determined

**Weekly Quant Quiz #7 Question No 3**

4 If  $m \neq 0$  and  $n \neq 0$ , is  $mn > 0$ ?

<http://gmatclub.com/forum/topic-280656.html>

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

Data Sufficiency (DS)

If  $m \neq 0$  and  $n \neq 0$ , is  $mn > 0$ ?

- 1)  $|m+n|=k$
- 2)  $|m|+|n|=k$

**Weekly Quant Quiz #7 Question No 4**

5 If  $p$  and  $q$  are numbers on the number line above, which of the followin

<http://gmatclub.com/forum/topic-280657.html>

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

Problem Solving (PS)

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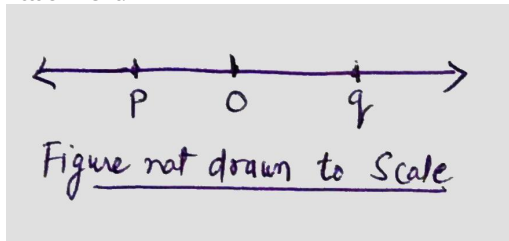
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Attachment:



1 (2).jpg [ 19.52 KiB | Viewed 180 times ]

If  $p$  and  $q$  are numbers on the number line above, which of the following statements must be true?

- I.  $|p+q| < q$
- II.  $p+q < 0$
- III.  $pq < 0$

- A) I only
- B) III only
- C) I, II
- D) I, III
- E) II, III

### Weekly Quant Quiz #7 Question No 5

6 If  $x$  and  $n$  are positive integers, what is the least common multiple of

<http://gmatclub.com/forum/topic-280658.html>

Tags: Difficulty: 600-700 Level | Number Properties

Data  
Sufficiency  
(DS)

If  $x$  and  $n$  are positive integers, what is the least common multiple of 96 and  $x$ ?

- 1)  $x = 2^n * 3^2 * 5$
- 2)  $n < 5$

### Weekly Quant Quiz #7 Question No 6

7 The length of one of the sides of a triangle is 25 units. If the area

<http://gmatclub.com/forum/topic-280659.html>

Tags: Difficulty: 700-Level | Geometry

Problem  
Solving (PS)

The length of one of the sides of a triangle is 25 units. If the area of the triangle is 120 units<sup>2</sup> and the length of the another side of the triangle is 10 units. Find the length of the third side.

- A)  $\sqrt{255}$
- B)  $\sqrt{585}$
- C)  $\sqrt{572}$
- D)  $\sqrt{558}$
- E) 24

### Weekly Quant Quiz #7 Question No 7

8 At a certain medical conference, there are only doctors and nurses. If

<http://gmatclub.com/forum/topic-280660.html>

Tags: Difficulty: 700-Level | Probability

Data  
Sufficiency  
(DS)

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At a certain medical conference, there are only doctors and nurses. If 4 people are to be randomly chosen from the conference attendees, what is the probability of randomly choosing at least n doctor(s)?

- 1) The probability of randomly selecting 4 nurses is  $\frac{1}{3}$
- 2)  $n = 1$

### Weekly Quant Quiz #7 Question No 8

9 In how many ways 10 Oranges be distributed among 2 children if both mu

<http://gmatclub.com/forum/topic-280661.html>

Tags: Difficulty: 600-700 Level | Combinations

Problem Solving (PS)

In how many ways 10 Oranges be distributed among 2 children if both must get odd no of Oranges?

- A. 513
- B. 540
- C. 512
- D. 515
- E. 516

### Weekly Quant Quiz #7 Question No 9

10 If angle ABC is 100 deg, what is the value of angle ADC? (Note: Diagra

<http://gmatclub.com/forum/topic-280662.html>

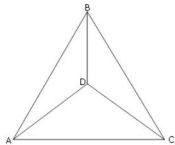
Tags: Difficulty: 700-Level | Geometry

Data Sufficiency (DS)

If angle ABC is 100 deg, what is the value of angle ADC? (Note: Diagram is not drawn to scale)

- 1) Triangle ABC is an isosceles triangle.
- 2) Angle DCA is 20 deg.

### Weekly Quant Quiz #7 Question No 10



10.jpg [ 7.57 KiB | Viewed 207 times ]

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## The list of ANSWERS:

### # Answer

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1 A

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2 D

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3 A

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4 C

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5 B

---

6 C

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7 B

---

8 C

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9 C

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10 E

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