
PS Geometry

Posted by Vijay - 2009/07/04 00:56

<http://score-plus.com/images/fbfiles/images/parallel.gif>

AB and DE are parallel. Angle BAC = 30 , angle CDE = 50. What is the measure of angle ACD ?

- A. 100
- B. 90
- C. 80
- D. 70
- E. cannot be determined from the information

The solid brick shown is made of small bricks of side 1. When the large brick is disassembled into its component small bricks, the total surface area of all the small bricks is how much greater than the surface area of the large brick?

- A. 32
 - B. 40
 - C. 60
 - D. 72
 - E. 80
- =====

Re:PS Geometry

Posted by candidanubhav@yahoo.co.in - 2009/07/04 19:39

C) for the first question based on supplementary angles sum=180.

Isn't there any measurement to the component small bricks ?

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Re:PS Geometry

Posted by Vijay - 2009/07/04 19:47

Doc. Attached for problem no.2 <http://score-plus.com/images/fbfiles/files/brick.zip>

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Re:PS Geometry

Posted by anirban - 2009/07/05 06:15

ma ans is C

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Re:PS Geometry

Posted by anirban - 2009/07/05 06:16

ma ans is C

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Re:PS Geometry

Posted by Huzefa - 2009/07/05 12:45

Vijay wrote:

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Hi Vijay.

For this one, drop a perpendicular CM to AB and from CN to DE...Then, angle ACM is 60 and DCN is 40. that leaves 80 on the straight line MN...Hence, the answer is C.

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Re:PS Geometry

Posted by Vijay - 2009/07/05 14:47

Explanation for Question-1

Imagine a third parallel line drawn through C. The angle ACD will be made of two angles, one alternate to BAC, and therefore = 30. The other is alternate to CDE and therefore = 50. Total for angle ACD = 80

Guys Attemp question-2

Will post correct answer after few more attempts.

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Re:PS Geometry

Posted by bhavin - 2009/07/05 18:48

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For 2nd problem:

$$TSA = 2(lb+bh+lh)$$

Brick is broken into 12 small bricks with dimension 1 ...ie 12 cubes of dimension 1

Surface area of each of the smaller brick is 6
Hence, area of 12 bricks is 72

Now, dimension of larger brick is $2 \times 2 \times 3$

Hence, TSA = $2(2 \times 2 + 2 \times 3 + 2 \times 3) = 32$

Hence, difference is $72 - 32 = 40$..Ans B

Keep going !!

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Re:PS Geometry

Posted by Vijay - 2009/07/05 19:45

Perfect answer Bhavin

Cheers ;)

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