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51. If the $\log_x 16 = 0.8$, then what is the value of x?

A. 4 B. 2 C. 32 D. 16

Solution:

$$x^{0.8} = 16$$

$$x = (2^4)^{(10/8)}$$

$$x = 2^5$$

$$x = 32$$

52. If $f(x) = e^x$ and $g(x) = \log_e x$, then what is the value of $\{f \circ g(x)\}$?

A. X B. e^x C. $\log_e x$ D. cannot be determined

53. The value of $\log_8 64 - \log_{64} 4096$ is

A. -1 B. 0 C. 1 D. 2

Ans: 0

54. What is the relationship between the fractions $14/15$ and $37/40$?

A. $14/15 = 37/40$ B. $14/15 > 37/40$ C. $14/15 < 37/40$ D. Cannot be determined

Option c)

Take LCM of both 15, 40 we get 120

$$(14 \times 8) / (15 \times 8) = 112/120$$

$$(37 \times 3) / (40 \times 3) = 111/120$$

$$\text{So } 14/15 > 37/40$$

55. If LCM and HCF of two numbers are equal and product of two numbers is 2916, find their LCM?

A. 54 B. 56 C. 64 D. 66

LCM and HCF will be equal if and only if both the numbers are equal.
therefore, $2916 = 54 \times 54$

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so LCM of both number =54

56. If the sum of squares of two numbers is 2754 and their HCF and LCM are 9 and 135 respectively, then the numbers are

A. 27, 36 B. 27, 35 C. 28, 45 D. 27, 45

As we know product of two nos.=their H.C.F*L.C.M

$$\text{So, } x*y=135*9=1215$$

$$\text{and } x^2+y^2=2754$$

$$\text{So, } (x+y)^2=x^2+y^2+2*x*y$$

$$=2754+2*1215=5184$$

$$\text{So, } x+y=72$$

Now on solving, the nos. are 45 and 27

57. The number of ways in the letters of the word “RESULT” can be arranged without repetition is
A. 720 B. 120 C. 60 D. 840

58. The HCF of two numbers is 4 and LCM is 48. If one of the numbers is 12, then one of the divisions of the numbers is: A. 3 B. 6 C. 8 D. 12

59. Which number should be added to 113257 so that it can be divided by 9?
A. 4 B. 6 C. 8 D. 10

60. ABCD is a square PQRS is a rhombus lying inside the square such that P, Q, R and S are the mid-points of AB, BC, CD and DA respectively. A point is selected at random in the square. Find the probability that lies in the rhombus A. 1/3 B. 2/3 C. 1/2 D. 1/4

at 10:34:00 PM



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59 ans is 8 as it woul make it 113257

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58 ans is c

$$4:48::12:X$$

$$4x48/12=X$$

$$X=16$$

ans is 8 as it's the only division of 16

1

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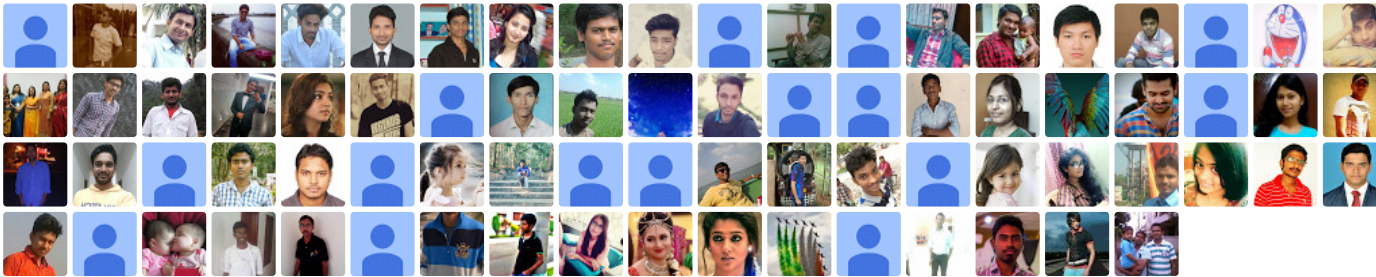
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