

RRB NTPC Previous Years' Arithmetic Questions

Part IV Average, LCM & HCF

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1. Mean of 10 observations is 13. There A. A B. C are two more observation added then new mean becomes 14. Find the mean of C. B two new observations. D. D Ans. B (A) 19 (B) 18 Sol. (C) 17 It will become 3P in 20 years. (D) 16 A. B 4. Mean of a distribution is 21 and B. D standard deviation is 7 . Find coefficient C. A of variation (variance). D. C (A) 16.66% (B) 66.66% Ans. C Sol. (C) 33.33% Mean = _____ (D) 100% number A. B Total Sum = $13 \times 10 = 130$ B. D C. A When 2 new observations are added D. C then, Ans. D New mean = 14, New total no. = 12 $Sum = 14 \times 12 = 168$ Sol. $\frac{\text{Standard Deviation}}{100} \times 100$ Sum of observations two Coefficient of variation = Mean = 168 - 130 = 38 $=\frac{7}{21}\times100$ Mean of two new observations $=\frac{38}{2}=19$ = 33.33 %. 5. Using the formulas of mean proportion 2. If the standard deviation of a and third proportion find the ratio of third population is 6.5. What will be variance? proportion of 8 and 20 and mean (A) 40.25 proportion of 4 and 9 (B) 42.25 (A) 21:6 (C) 18.25 (B) 25 : 3 (D) 13 (C) 24 : 5 A. C (D) 5 : 2 B. A A. (C) C. D B. (B) D. 5 C. (A) Ans. D D. (D) Sol. Ans. B Sol. Sol. $Variance = (Standard deviation)^2$ Third proportion of 8 and 20 - $= (6.5)^2$ 8/20 = 20/x= 42.25. $x = (20 \times 20) / 8$ $x = 5 \times 10$ x = 50 3. A sum (P) becomes two times in 10 Now, mean proportion of 4 and 9 years. How much will it become in 20 $X = \sqrt{4 \times 9}$ vears. $X = \sqrt{36}$ (A) P X = 6(B) 2P Ratio = 25:3(C) 3P Option B is correct response. (D) 4P





 6. Three numbers are given, in which second number is three times of first number and two times of third number. If the average of all three numbers is 66 then find the first numbers. (A) 36 (B) 54 (C) 108 	Ans. D Sol. Variance = $(4.5)^2 = 20.25$ 9. What is the minimum value of y, by which 26y742 is completely divisible by 3?
(C) 108 (D) 72 A. (A) B. (B) C. (C) D. (D) Ans. A Sol.	(A) 2 (B) 1 (C) 0 (D) 5 A. (D) B. (B) C. (C) D. (A)
 7. What is average of first 30 multiple of 9? (A) 142 (B) 138.5 (C) 139.5 (D) 143.5 A. (B) B. (C) C. (A) 	Ans. C Sol. To check the divisibility by 3, we check the sum of digits should be divisible by 3. $\frac{2+6+y+7+4+2}{3} = \frac{21+y}{3}$ We put y = 0 then, $\frac{21}{3} = 0$ (remainder).
D. (D) Ans. B Sol. First 30 multiple of 9 = $9 + 18 + 27 + + 270$ = $9(1 + 2 + 3 + + 30)$ Sum of first n terms n(n + 1)	 10. Mean of 12 observations is 15. If a observation is added into it then new mean becomes 16. Find the 13th observation. (A) 20 (B) 24 (C) 26 (D) 28
$Sum = 9 \times 30 \times \frac{31}{2}$ $Avg. = \frac{9 \times 30 \times 31}{30 \times 2} = \frac{279}{2}$ = 139.5	A. (B) B. (D) C. (A) D. (C) Ans. B Sol. A.T.Q $12 \times 15 = 180$
 8. If the standard deviation of a population is 4.5. What will its variance? (A) 20.25 (B) 20 (C) 9 (D) 18 A. (D) B. (C) C. (B) D. (A) 	<pre>16 × 13 = 208 13th no. = Difference = 28 11. Average cost price of 40 pens is ` 10 and average cost price of 30 pencils is ` 2. If all sell in ` 560. Find average selling price per object. (A) ` 8 (B) ` 7 (C) ` 7.50</pre>
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(D) \ 10 A. (A) A. (B) B. (B) C. (D) B. (C) C. (D) D. (C) D. (A) Ans. B Ans. D Sol. Mean of the data Sol. $= (1 + \frac{1}{2} + \frac{1}{2} + \frac{3}{4} + 2 + \frac{1}{2} + \frac{1}{4} + \frac{1$ Selling price of 70 objects (40 pens and 30 pencils) = ₹ 560 3/4)/9 So, Average selling price = 560/70 = 8 ₹ = (26/4)/9 = 13/1812. The expenditure of a man increases 14. The average ages of parents and two to ` 10000 in each February and March. children are 30 years and 8 years If expenditure of the man was ` 10,000 respectively. The average age of the in January. Then find the average family is expenditure of the man from January to (A) 16 years March. (B) 19 years (A) 20,000 (C) 18 years (B) 15,000 (D) 17 years A. (C) (C) 10,000 (D) 25,000 B. (A) A. (C) C. (D) B. (A) D. (B) Ans. D C. (B) D. (D) Sol. Ans. B Total age of parents = $30 \times 2 = 60$ years Total age of two children = $8 \times 2 = 16$ Sol. Expenditure of the man in January= Rs. years Average age of family = (60 + 16)/4 =10,000 The expenditure of a man increases to Rs. 76/4 =19 years 10000 in each February and March, so 15. Find the median of all the positive Expenditure of February =10000+10000=Rs. 20000 factors of 48. Expenditure of March= (A) 16 20000+10000=Rs. 30000 (B) 12 Therefore, the average expenditure of the (C) 8 January man from to (D) 7 march= $\frac{10000+20000+30000}{Rs.20000} = Rs.20000$ A. (D) B. (A) C. (C) D. (B) 13. The mean of the data $1, \frac{1}{2}, \frac{1}{2}, \frac{3}{4},$ Ans. A 2, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{4}$ and $\frac{3}{4}$ is Sol. All the positive factors of 48 1,2,3,4,6,8,12,16,24,48 (A) $\frac{15}{18}$ Number of total factors is even so we will take two middle terms to calculate (B) $\frac{13}{18}$ median Median = $\frac{1}{2} \times (5^{th} term + 6^{th} term)$ (C) $\frac{7}{9}$ $=\frac{1}{2} \times (6+8) = 7$ (D) $\frac{8}{9}$

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16. Find the average of first 20 multiples Sol. Total quantity of the rice=64.04 quantal= of 12. (A) 124 6404 Kg. (B) 120 Number of the people=3780 (C) 126 Each person will get =6404/3780=1.694(D) 130 Kg. A. (C) B. (D) 19. Find the mean, mode and median of C. (B) 3, 4, 5, 3, 6, 3, 4, 5 and 3 respectively (A) 4, 4, 4 D. (A) (B) 4, 4, 3 Ans. A Sol. (C) 3, 4, 4 We know that, (D) 4, 3, 4 $T_n = a + (n-1)d$ A. (D) $T_{20} = 12 + 19 \times 12$ B. (C) T₂₀=240(Last term) C. (B) Now series will be, 12,24,36240 D. (A) Sn=n[a+l]/2Ans. A $S_{20} = 20[12+240]/2$ Sol. $= 20 \times 126$ Lets arrange the following data in Average of 20th terms=20 x 126/20=126 ascending order\ 3,3,3,3,4,4,5,5,6 Mean = (3 + 4 + 5 + 3 + 6 + 3 + 4 + 5)17. Find the average of first 20 multiples of 8 (+ 3)/9 = 36/9 = 4(A) 78 Median of the following dataset is the mid (B) 80 value of the data set = 4(C) 84 Mode of the data is the value which appears maximum number of times i.e. = (D) 82 A. (B) 3 B. (C) 20. Being at strike in next over too, how C. (D) much maximum score a batsmen can do. D. (A) Ans. B If in it no ball, wide or overthrow is not Sol. included. First 20 multiple of 8 are 8, 16,....160 (A) 36 We can say that it is an Arithmetic (B) 34 progression with first term 8 and last (C) 33 term = 160(D) 31 Average of an AP = (first term + last)A. (B) term)/2 = (8 + 160)/2 = 84B. (A) C. (C) 18. If 68.04 quintals (metric) of rice has D. (D) to be distributed among 3780 people, Ans. C how much will each person get? Sol. Maximum runs in an over so that the batsman is on strike again in the next (A) 18 kg over will be in the order (B) 1.8 kg (C) 180 kg 6,6,6,6,6,5 (D) 1.08 kg Six on first 5 balls and he runs 3 on the A. (A) last ball B. (C) hence 33 runs. C. (B) D. (D) 21. If the mode of given data is 52. Then Ans. C find the value of x.

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52, 45, 49, 54, 56, 52, x-3, 56 and it will affect the average by 37/40 =(A) 54 +0.925(B) 55 New average = 72.5 + 0.925 = 73.4(C) 54 (D) 56 24. In a company10 employees get a A. (B) salary of Rs.36,200 each and 15 employees get a salary of Rs.33,550 B. (D) each. What is the average salary of the C. (A) D. (C) employees in the company? Ans. A (A) Rs.34610 (B) Rs.34640 Sol. Mode has the maximum frequency in (C) Rs.35610 a series. therefore x - 3 = 52(D) Rs.32610 x=55 A. (B) B. (C) C. (D) 22. There are three piles of rice. Each weight is 120 kg, 144 kg and 204 kg. Find D. (A) the maximum capacity of bag so that Ans. D each piles of rice can be packed in whole Sol. 10×36200+15×33550 no. of bags. Average salary = (A) 12 (B) 10 362000+503250 (C) 15 25 (D) 18 = 34610 rs.A. (C) B. (A) 25. Raj scored 67, 69, 78 and 88 marks C. (B) in four subjects. How many marks should D. (D) he score in 5th subject to equal the overall Ans. B average of 80 marks? Sol. We need to find the H.C.F of three (A) 89 quantities (B) 92 $120 = 2^3 \times 3 \times 5$ (C) 98 $144 = 2^4 \times 3^2$ (D) 100 $204 = 2^2 \times 3 \times 17$ A. (C) H.C.F = $2^2 \times 3$ (Common in all three) B. (A) =12 C. (D) D. (B) 23. The mean of marks obtained by 40 Ans. A students in a exam is 72.5. But later Sol. known that by mistake 47 in written Lasr score of 5th subject be x instead of 84. Find the correct mean. Now, (A) 78.25 67 + 69 + 78 + 88 + x = 80(B) 60.25 5 (C) 72.70 (D) 73.4 302 + x = 400A. (D) x = 98B. (B) C. (C) 26. The sum of three consecutive D. (A) numbers is 126. Find the highest number. Ans. A (A) 41 Sol. $(\Sigma 40)/40 = 72.5$ (B) 42 47 is written instead of 84 (C) 43 therefore the error is of (84 - 47) = 37(D) 44





A. (D) B. (A) C. (B) D. (C) Ans. D Sol. Let the three numbers be a-1, a, a+1a-1 + a + a+1 = 3a = 126a = 42Highest number = a+1 = 4327. The product of two positive integer is 375. If one no is divided by another one then 5/3 remains. What is the smallest number? (A) 15 (B) 25 (C) 20 (D) 12 A. (C) B. (B) C. (A) 30. D. (D) Ans. C Sol. Let the numbers be a and b a/b = 5/3Let a be 5x and b be 3x $ab = 15x^2 = 375$ $x^2 = 25$ or x = 5So the numbers are 5x and 3x = 25 and 15 Smallest number is 15 28. There are 25 questions in an exam. 4 marks are given for each correct answer and 2 marks are deducted for each wrong answer. If Seema scored 70 marks, how many questions are right? (A) 10 (B) 15 (C) 20

(B) 15 (C) 20 (D) 22 A. (A) B. (C) C. (D) D. (B) Ans. B Sol. Let n be the no. of correct questions 4n - 2(25-n) = 70n=20 29. The average of marks scored by James in Math, Science and History is 89. The average is lowered to 88.25 if the marks of language is also added. Calculate the marks in language obtained by him. (A) 90 (B) 82 (C) 86 (D) 83 A. (C) B. (B) C. (A) D. (D) Ans. A Sol. Total marks excluding language = $89 \times 3 = 267$ Total marks including language = $88.25 \times 4 = 353$ Marks in language = 353-267 = 86The Arithmetic mean of 20 inspections is 15.5 it was found later that 24 was read as 42 by mistake. Then find the correct mean? (A) 14 (B) 14.4 (C) 14.6 (D) 15 A. (A) B. (D) C. (C) D. (B) Ans. C Sol. Incorrect total sum = $20 \times 15.5 = 310$ Since 24 is misread as 42 Correct sum = 310 + 24 - 42 = 292Correct mean = 292/20 = 14.631. The sum of three consecutive even number is 42. Find the middle number (A) 12 (B) 18 (C) 16 (D) 14 A. (D) B. (B)

C. (C) D. (A) Ans. A Sol. Let the numbers be a-2,a,a+2Sum = 3a = 42a= 14

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Thus middle number = a = 14 $=\frac{63}{5}=12.6$ 32. HCF of two number is 19 and their LCM is 665 . If one number is 95 . Then 35. HCF of $2x^2 + 5x - 12$ and $x^2 + x - 12$ find second number. is (x - a). Then find the value of a. (A) 19 (A) -3 (B) 133 (B) -2 (C) 190 (C) -4 (D) 77 (D) 5 A. B A. (D) B. C B. (C) C. D C. (B) D. A D. (A) Ans. A Ans. B Sol. . Sol. LCM \times HCF = 1st no. \times 2nd no. Since (x - a) is a factor of given 2^{nd} No. = $\frac{19 \times 66.5}{95}$ = 133. equations. x + a = 0 or x = a $2a^2 + 5a - 12 = 0$ 33. Find the greatest number which is completely divisible by 15, 18, 27 and 30. $2a^2 + 8a - 3a - 12 = 0$ (A) 870 2a(a+4) - 3(a+4) = 0(B) 900 (C) 810 $a = \frac{3}{2}, -4$ (D) 780 A. (B) $a^2 + a - 12 = 0$ B. (D) C. (C) $a^2 + 4a - 3a - 12 = 0$ D. (A) a(a+4) - 3(a+4) = 0Ans. C Sol. LCM of 15, 18, 27 and 30 is 270. a = -4.3Multiple of 270 among the given options is 810(270*3). Hence, a = -434. Find LCM of 0.63, 2.1, 4.20? 36. Sum of two numbers is 56 and LCM is (A) 63 105. Find the numbers (B) 12.6 (A) 34, 22 (C) 6.30 (B) 35, 21 (D) 6300 (C) 7, 49 A. (A) (D) 1, 55 B. (D) A. (D) C. (C) B. (B) D. (B) C. (C) Ans. D D. (A) Sol. Ans. B LCM of 0.63, 2.1, 4.20, Sol. Or LCM of Option (B) is satisfying the question's 63 21 21 requirements. 100 '10 ' 5 Sum of 35 and 21 is 56. LCM of 35 and 21 is 105. 42/10 in simplest form = 21/5So, the numbers are 35 and 21 LCM of Numerator HCF of Denominator

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37. Find the HCF of 1757 and 2259. A. (C) (A) 231 B. (B) C. (A) (B) 241 (C) 251 D. (D) (D) 261 Ans. D A. (C) Sol. B. (A) Given that product of two numbers=4941 C. (B) LCM=81 D. (D) We know that HCF x LCM=Product of two Ans. A numbers 4941 Sol. $HCF = \frac{1911}{81} = 61$ Factors of $1757 = 7 \times 251$ Factors of $2259 = 3 \times 3 \times 251$ the HCF of 1757 and 2259 = 251 41. Two numbers are in the ratio 7 : 9 and their HCF is 12. Their LCM is : 38. If the product of two numbers is 2400 (A) 756 and their LCM is 96, then their HCF is: (B) 84 (A) 35 (C) 108 (B) 240 (D) 765 (C) 24 A. (C) (D) 25 B. (D) A. (D) C. (A) B. (A) D. (B) C. (C) Ans. C D. (B) Sol. Ans. A let the numbers are 7x and 9x Sol. respectively Product of numbers = $LCM \times HCF$ Given is , HCF =12 $2400 = 96 \times HCF$ Now, HCF of the numbers will be =xHCF = 25Then, x=12LCM of numbers=63x 39. Two numbers are in the ratio 2 : 5 LCM =63 * 12=756 and their HCF is 18. Their LCM is: (A) 180 42. The HCF of two numbers is 6 and their (B) 36 LCM is 108. If one of the numbers is 12, (C) 90 then the other is (D) 188 (A) 27 A. (D) (B) 54 B. (A) (C) 48 C. (C) (D) 36 D. (B) A. (D) Ans. B B. (B) Sol. C. (A) Let the number be 2x and 5x D. (C) HCF of 2x and 5x = x = 18Ans. B LCM = 10x = 180Sol. HCF of two numbers is 6 and their LCM is 40. If the product of two numbers is 4941 108 and their LCM is 81, then their HCF is : Let the second number be N (A) 31 We know that, (B) 60 $HCF \times LCM = product of two numbers$ (C) 45 $6 \times 108 = 12 \times N$ (D) 61 N = 54

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43. The HCF of two numbers is 4 and the 46. HCF and LCM of two numbers is 7 and two other factors of LCM are 5 and 7. Find 252 respectively. If Ist number is 28 then the smaller of the two numbers. find the 2nd number. (A) 252 (A) 10 (B) 14 (B) 63 (C) 20 (C) 126 (D) 56 (D) 28 A. (C) A. (C) B. (D) B. (B) C. (A) C. (D) D. (B) D. (A) Ans. B Ans. A Sol. Sol. Let the two number be 4x and 4y Let the second number be x. $LCM = 4 \times 5 \times 7$ We know that, Since x and y are coprime numbers LCM×HCF = Product of two numbers x = 5 and y = 7 $7 \times 252 = 28x$ $x = 7 \times 252/28 = 63$ smaller number = $4 \times 5 = 20$ 44. Find the L.C.M of 15, 25 and 29 47. Find the LCM of 13, 19, 21 and 22. (A) 2335 (A) 114114 (B) 3337 (B) 124124 (C) 2175 (C) 141114 (D) 2375 (D) 142214 A. (A) A. (C) B. (C) B. (D) C. (D) C. (B) D. (B) D. (A) Ans. B Ans. D Sol. Sol. LCM of $(15, 25, 29) = 3 \times 5 \times 5 \times 29 =$ Since all the numbers are coprime to each 2175 other, There LCM will be = $13 \times 19 \times 21 \times 22 =$ 45. H.C.D. and L.C.M of two numbers is 3 114114 and 2730 respectively. If 1st number is 78 then find the 2nd number. 48. The HCF of 252, 294 and 3#8 is 42, (A) 107 what is #? (B) 103 (A) 2 (C) 105 (B) 4 (D) 102 (C) 7 A. (C) (D) 8 B. (D) A. (A) C. (A) B. (D) D. (B) C. (B) Ans. A D. (C) Ans. D Sol. HCF x LCM = first number x second Sol. number If the hcf of 252,294, and 3#8 is 42, then $3 \times 2730 = 78 \times \text{second number}$ each of the number is divisible by 42 Second number = 105In the table of 42, number of digits divisible between 300 and 400 is 336 and 378

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Since the last digit of the required A. (C) number is 8, the required number is 378 B. (D) Therefore # = 7C. (A) D. (B) Ans. D 49. There are 8 children in a group. Pencils are in packs containing one dozen. Sol. Find the minimum number of packs Factors of 12, 18, 21, and 28 needed to distribute equal number of $12 = 2 \times 2 \times 3$ $18 = 2 \times 3 \times 3$ pencils to each child? (A) 4 $21 = 3 \times 7$ (B) 3 28 = 2x 2x 7(C) 2 $LCM = 2 \times 2 \times 3 \times 3 \times 7 = 252$ (D) 1 A. (A) 52. The HCF of two numbers is 24, Then which can be the LCM of these numbers. B. (C) C. (D) (A) 118 (B) 144 D. (B) Ans. B (C) 128 (D) 136 Sol. A pack contains 12 pencils and the pencils A. (B) B. (C) must be distributed equally among 8 children. C. (A) Taking LCM of 8 and 12 we get the D. (D) number of pencils = 24Ans. A So the minimum number of packs Sol. H.C.F is always a factor of L.C.M required = 24/12 = 2 packs and, 24 is factor of only 144. 50. The LCM of two numbers is 78 and 53. Find the greatest common factor of ratio of the numbers is 2:3. Then find sum 280 and 144. (A) 2 of those numbers. (A) 60 (B) 8 (B) 26 (C) 6 (C) 65 (D) 4 (D) 39 A. (C) A. (B) B. (B) C. (D) B. (D) C. (A) D. (A) D. (C) Ans. B Ans. D Sol. $280 = 2^3 \times 5 \times 7$ Sol. $144 = 2^4 \times 3^2$ Let the two number are 2x and 3x. LCM of both the numbers is = 6x $H.C.F = 2^3 = 8$ Given 6x = 78X=13 54. The product of two numbers is 35828 Numbers will be 26 and 39 and their HCF is 26. Find their LCM. Sum of numbers will be 26+39=65. (A) 931788 (B) 689 51. Find the LCM of given data 12,18,21 (C) 1378 and 28 . (D) 3583 (A) 84 A. (D) (B) 252 B. (B) (C) 254 C. (A) (D) 125 D. (C)



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Ans. D (D) 7 Sol. A. (D) We know that B. (B) C. (C) Product of two no = $HCF \times LCM$ Let LCM be = xD. (A) Then, Ans. C Sol. 198 = $2 \times 3^2 \times 11$ $x \times 26 = 3.5828$ $78 = 2 \times 3 \times 13$ x = 1378 $HCF = 2 \times 3 = 6$ 55. Find the G.C.F. and L.C.M. of 20 and 58. The product of two number of 2 digits 28 is 2160 LCM is 180. Find out no.? (A) 20, 280 (A) 72 and 30 (B) 5, 280 (B) 36 and 60 (C) 10, 140 (C) 45 and 48 (D) 4, 140 (D) 54 and 40 A. (A) A. (C) B. (B) B. (D) C. (D) C. (B) D. (C) D. (A) Ans. C Ans. C Sol. Sol. LCM×HCF = Product of two numbers $20 = 2^2 \times 5$ = 2160 $28 = 2^2 \times 7$ HCF = 2160/180 = 12 $GCF(20,28) = 2^2 = 4$ Let the numbers be 12x and 12y $LCM(20,28) = 2^2 \times 5 \times 7 = 140$ 144xy = 2160xy = 1556. A person carries Rs. 165 in the form Since numbers are of 2 digits of currency notes of denominations Rs. 5, x=3 and y=5 will satisfy the condition Rs. 10 and Rs. 20 in the ratio of 3 : 2 : 1. Ans = 36 and 60What is the value of currency notes of Rs. 20 denomination? 59. The largest factor of 360 and 450 is (A) Rs. 60 (A) 90 (B) Rs. 100 (B) 45 (C) Rs. 40 (C) 10 (D) Rs. 80 (D) 9 A. (A) A. (B) B. (D) B. (A) C. (C) C. (C) D. (B) D. (D) Ans. A Ans. B Sol. Sol. largest factor of 360 and 450 = Let the no of notes be 3x, 2x, x each HCF(360 and 450) = 90 $5 \times 3x + 10 \times 2x + 20 \times x = 165$ or 55x = 16560.Find HCF of 0.32, 2.72, 12.8, 14.4 is or x = 3(A) 16 value of currency notes of Rs. 20 (B) 1.6 denomination = $20 \times 3 = \text{Rs } 60$ (C) 0.16 (D) 2.72 57. Find the H.C .F. of 198 and 78? A. (D) (A) 8 B. (A) (B) 9 C. (B) (C) 6 D. (C)

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Ans. D $92 = 2^2 \times 23$ Sol. $140 = 2^2 \times 5 \times 7$ $0.32 = 0.16 \times 2$ $HCF = 2^2 = 4$ $2.72 = 0.16 \times 17$ $12.8 = 0.16 \times 80$ 62. Find the Greatest Common Factor of $14.4 = 0.16 \times 90$ 280 and 144: HCF = 0.16A. 2 Option D is correct. B. 8 C. 6 61. Find the HCF of 48, 92 and 140. D. 4 A. 8 Ans. B B. 6 Sol. $280 = 2^3 \times 5 \times 7$ C. 4 $144 = 2^4 \times 3^2$ D. 3 So, Greatest Common Factor (HCF) of Ans. C 280 and $144 = 2^3 = 8$ Sol. $48 = 2^4 \times 3$



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