MATHS

BOOKS - NAVNEET PUBLICATION

HCF and LCM

Question Bank

1. Which number is neither a prime number nor a composite number?

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2. Which of the following are the pairs of coprimes?

8,14

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3. Which of the following are the pairs of coprimes?

4,5

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4. Which of the following are the pairs of coprimes?

17,19

5. Which of the following are the pairs of coprimes?

27,15

6. List the prime numbers from 25 to 100. How many are they?

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7. Write all the twin prime numbers from 51 to 100.

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8. Write 5 pairs of coprime numbers from 1 to 50.

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9. Which are the even prime numbers?

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10. Find the prime factors of the following numbers:

32

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11. Find the prime factors of the following numbers:

57

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12. Find the prime factors of the following numbers:

23

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13. Find the prime factors of the following numbers:

150

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14. Find the prime factors of the following numbers:

216

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15. Find the prime factors of the following numbers:

208

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16. Find the prime factors of the following numbers:

765

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17. Find the prime factors of the following numbers:

342

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18. Find the prime factors of the following numbers:

377

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19. Find the prime factors of the following numbers:

559

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20. Find the HCF:

25,40

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21. Find the HCF:

56,32

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22. Find the HCF:

40,60,75

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23. Find the HCF:

16,27

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24. Find the HCF:

18,32,48

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25. Find the HCF:

105,154

26. Find the HCF:

42,45,48

27. Find the HCF:

57,75,102

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28. Find the HCF:

56,57

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29. Find the HCF:

777,315,588

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30. Find the HCF by division method and reduce to the simplest form:

$$\frac{275}{525}$$

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31. Find the HCF by division method and reduce to the simplest form:

$$\frac{76}{133}$$

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32. Find the HCF by division method and reduce to the simplest form:

$$\frac{161}{69}$$

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33. Find the HCF and LCM of 48 and 60.

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34. Find the LCM of 12, 18 and 24.

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35. The HCF of two numbers is 12 and their product is 3600. Find the LCM.

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36. Find the LCM:

12,15

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37. Find the LCM:

6,8,10

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38. Find the LCM:

18,32

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39. Find the LCM:

10,15,20

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40. Find the LCM:

45,86

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41. Find the LCM:

15,30,90

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42. Find the LCM:

105,195

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43. Find the LCM:

12,15,45

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44. Find the LCM:

63,81

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45. Find the LCM:

18,36,27

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46. Find the HCF and LCM of the following numbers. Verify that their product is equal to the product of the given two numbers.

32,37

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47. Find the HCF and LCM of the following numbers. Verify that their product is equal to the product of the given two numbers.

46,51

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48. Find the HCF and LCM of the following numbers. Verify that their product is equal to the product of the given two numbers.

15,60

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49. Find the HCF and LCM of the following numbers. Verify that their product is equal to

the product of the given two numbers.

18,63

50. Find the HCF and LCM of the following numbers. Verify that their product is equal to the product of the given two numbers.

78,104

51. Choose the correct alternative:

The HCF of 120 and 150 is _____

A. 30

B. 45

C. 20

D. 120

Answer: A

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52. Choose the correct alternative:

The HCF of these pairs of the numbers is not 1.

A. 13,17

B. 29,20

C. 40,20

D. 14,15

Answer: C

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53. Find the HCF and LCM:

14,28

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54. Find the HCF and LCM:

32,16

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55. Find the HCF and LCM:

17,102,170

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56. Find the HCF and LCM:

23,69

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57. Find the HCF and LCM:

21,49,84

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58. Find the LCM:

36,42

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59. Find the LCM:

15,25,30

60. Find the LCM:

18,42,48

61. Find the LCM:

4,12,20

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62. Find the LCM:

24,40,80,120

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63. Find the smallest number which divided by 8,9,10,15 and 20 leaves 5 as remainder.

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64. Reduce the fractions $\frac{348}{319}, \frac{221}{247}, \frac{437}{551}$ to the lowest terms.

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65. The LCM and HCF of two numbers are 432 and 72 respectively. If one of the two numbers is 216. what is the other number?

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66. The product of two 2-digit numbers is 765 and their HCF is 3. What is their LCM?

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67. The trader has three bundles of strings of lengths 392m, 308m and 490 m respectively. The string in three bundles are cut into pieces of equal length so that no string is left over. What is the greatest possible length of each piece?

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68. Which two consecutive even numbers have an LCM of 180?

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69. What is the HCF of 17 and 19?

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70. What is the HCF of 12 and 36?

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71. What is the HCF of 12 and 36?

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72. Which is the smallest number exactly divisible by 14 and 28?

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73. $\frac{3}{5} + \frac{4}{7}$ To find the sum what should be the minimum number as the denominators?

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74. If the HCF and LCM of two numbers are 7 and 14 respectively. What are the numbers?

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