



MATHS

BOOKS - MBD

PLAYING WITH NUMBERS

Example

1. Write all the factors of the following number

:

24



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2. Write all the factors of the following number :

15



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3. Write all the factors of the following number :

21





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4. Write all the factors of the following number :

27



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5. Write all the factors of the following number :

12



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6. Write all the factors of the following number :

20



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7. Write all the factors of the following number :

18



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8. Write all the factors of the following number :

23



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9. Write all the factors of the following number :

36



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10. Write first five multiples of :

5



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11. Write first five multiples of :

8



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12. Write first five multiples of :

9



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13. Match the items in column 1 with the items in column 2:

Column 1	Column 2
(i) 35	(a) Multiple of 8
(ii) 15	(b) Multiple of 7
(iii) 16	(c) Multiple of 70
(iv) 20	(d) Factor of 30
(v) 25	(e) Factor of 50
	(f) Factor of 20



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14. Find all the multiples 9 upto 100.



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15. What is the sum of any two Odd numbers
,Even numbers?



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16. State whether the following statements are

True or False:

the sum of three odd numbers is even.



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17. State whether the following statements are

True or False:

The sum of two odd numbers and one even number is even.



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18. State whether the followin statements are

True of False:

The product of three odd numbers is odd.



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19. State whether the followin statements are

True of False:

If an even number is divided by 2,the quotient is always odd.



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20.

State whether the following statements are

True or False:

All prime numbers are odd.



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21. State whether the followin statements are

True of False:

Prime numbers do not have any factors.



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22. State whether the following statements are True or False:

Sum of two prime numbers is always even.



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23. State whether the following statements are True or False:

2 is the only even prime number.



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24. State whether the following statements are True or False:

All even numbers are composite numbers.



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25. State whether the following statements are True or False:

The product of two even numbers is always even.



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26. The numbers 13 and 31 are prime numbers. Both these numbers have same digits 1 and 3. Find such pairs of prime numbers upto 100.



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27. Write down separately the prime and composite numbers less than 20.





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28. What is the greatest prime number between 1 and 10?



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29. Express the following as the sum of two odd primes:

44



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30. Express each of the following numbers as a sum of two odd primes :

36



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31. Express the following as the sum of two odd primes:

24



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32. Express the following as the sum of two odd primes:

18



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33. Give three pairs of prime numbers whose difference is 2. [Remark: Two prime numbers whose difference is 2 are called twin primes]



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34. Which of the following numbers are prime?

23



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35. Which of the following numbers are prime?

51



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36. Which of the following numbers are prime?

37



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37. Which of the following numbers are prime?

26



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38. Write seven consecutive composite numbers less than 100 so that there is no prime number between them.



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39. Express each of the following numbers as the sum of three odd primes:

21



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40. Express each of the following numbers as the sum of three odd primes:

31



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41. Express each of the following numbers as the sum of three odd primes:

53



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42. Express each of the following numbers as the sum of three odd primes:

61



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43. Write five pairs of prime numbers below 20 whose sum is divisible by 5. (Hint $3 + 7 = 10$)



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44. Fill in the blanks in the following:

A number which has only two factors is called

a



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45. Fill in the blanks in the following:

A number which has more than two factors is called a .. .



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46. Fill in the blanks in the following:

1 is neither nor..... .



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47. Fill in the blanks in the following:

the smallest prime number is



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48. Fill in the blanks in the following:

the smallest even number is



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49. Write all prime numbers between:

5 and 35



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50. Write all prime numbers between:

70 and 100



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51. Write all prime numbers between:

40 and 80



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52. Write all prime numbers between:

77 and 158



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53. Which of the following number are prime?

204



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54. Which of the following number are prime?

83



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55. Which of the following number are prime?

139



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56. Which of the following number are prime?

19



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57. Which of the following number are prime?

27



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58. Which of the following number are prime?

37



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59. Which of the following number are prime?

57



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60. Which of the following number are prime?

107



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61. Can a composite number be odd? If yes, write the smallest odd composite number.



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62. The digit's in unit's place of a number is 5. If the number lies between 150 and 200, will it be composite or prime?



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63. Can you find an even number greater than 4 which cannot be expressed as a sum of two odd numbers ?



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64. Express each of the following numbers as the sum of three odd primes:

31



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65. Express each of the following as a sum of three odd primes:

35



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66. Express each of the following odd numbers as the sum of three odd prime numbers

49



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67. Express each of the following odd numbers as the sum of three odd prime numbers

63



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68. List all such pairs of primes less than 10 whose difference is :

1



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69. List all such pairs of primes less than 10

whose difference is :

3.



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70. List all prime numbers less than 100 an

having 3 as the digit at its unit place.



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71. Write down the smallest :

odd composite numbers



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72. Write down the smallest :

even composite numbers



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73. Write down the smallest :
even prime numbers.



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74. Which of the following statements are true?

1 is the smallest prime number



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75. Which of the following statements are true?

If a number is a prime, it must be odd.



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76. Which of the following statements are true?

the sum of two prime number is always a prime number.



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77. Which of the following statements are true?

If two numbers are co-prime, at least one of them must be prime number.



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78. Using divisibility tests, determine which of the following numbers are divisible by 2, by 3, by 4, by 5 (say yes or no): 128



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79. Using divisibility tests,determine which of the following numbers are divisible by 4,by 8:

572



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80. Using divisibility tests,determine which of the following numbers are divisible by 4,by 8:

726352



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81. Using divisibility tests,determine which of the following numbers are divisible by 4,by 8:

5500



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82. Using divisibility tests,determine which of the following numbers are divisible by 4,by 8:

6000



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83. Using divisibility tests, determine which of the following numbers are divisible by 4, by 8:

12159



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84. Using divisibility tests, determine which of the following numbers are divisible by 4, by 8:

14560



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85. Using divisibility tests,determine which of the following numbers are divisible by 4,by 8:

21084



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86. Using divisibility tests,determine which of the following numbers are divisible by 4,by 8:

31795072



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87. Using divisibility tests, determine which of the following numbers are divisible by 4, by 8:

1700



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88. Using divisibility tests, determine which of the following numbers are divisible by 4, by 8:

2150



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89. Using divisibility tests determine which of following numbers are divisible by 6:

297144



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90. Using divisibility tests determine which of following numbers are divisible by 6:

1258



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91. Using divisibility tests determine which of following numbers are divisible by 6:

4335



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92. Using divisibility tests determine which of following numbers are divisible by 6:

61233



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93. Using divisibility tests determine which of following numbers are divisible by 6:

901352



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94. Using divisibility tests determine which of following numbers are divisible by 6:

438750



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95. Using divisibility tests determine which of following numbers are divisible by 6:

1790184



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96. Using divisibility tests determine which of following numbers are divisible by 6:

12583



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97. Using divisibility tests determine which of following numbers are divisible by 6:

639210



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98. Using divisibility tests determine which of following numbers are divisible by 6:

17852



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99. Using divisibility tests, determine which of the following numbers are divisible by 11:

5445



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100. Using divisibility tests, determine which of the following numbers are divisible by 11:

10824



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101. Using divisibility tests, determine which of the following numbers are divisible by 11:

7135965



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102. Using divisibility tests, determine which of the following numbers are divisible by 11:

70169308



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103. Using divisibility tests, determine which of the following numbers are divisible by 11:

10000001



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104. Using divisibility tests, determine which of the following numbers are divisible by 11:

901153



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105. Write the smallest digit and the largest digit in the blank space of each of the following numbers so that the number is divisible by 3:

__6724.



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106. Write the smallest digit and the largest digit in the blank space of each of the following numbers so that the number

is divisible by 3:

4765__2.



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107. Write digit in the blank space of each of the following numbers so that the number is divisible by 11 :

92 __389.



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108. Write digit in the blank space of each of the following numbers so that the number is divisible by 11 :

8__9484.



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109. Find the common factors of :

20 and 28.



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110. Find the common factors of :

15 and 25.



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111. Find the common factors of :

35 and 50



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112. Find the common factors of :

56 and 120.



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113. Find the common factors of :

4,8 and 12



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114. Find the common factors of :

5,15 and 25.



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115. Find first three common multiples of:

6 and 8.



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116. Find first three common multiples of:

12 and 18.



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117. Write all the numbers less than 100 which are common multiples of 3 and 4.



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118. Which of the following numbers are co-prime:

18 and 35.



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119. Which of the following numbers are co-prime:

15 and 37.



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120. Which of the following numbers are co-prime:

30 and 415



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121. Which of the following numbers are co-prime:

17 and 68



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122. Which of the following numbers are coprime:

216 and 215



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123. Which of the following numbers are coprime:

81 and 16.



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124. A number is divisible by both 5 and 12. By which other number will that number be always divisible?



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125. A number is divisible by 12. By what other numbers will that number be divisible?



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126. Which of the following statements are true ?

If a number is divisible by 3, it must be divisible by 9.



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127. Which of the following statements are true ?

If a number is divisible by 9, it must be divisible by 3.





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128. Which of the following statements are true ?

A number is divisible by 9 and 10 both, then it must be divisible by 90.



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129. Which of the following statements are true ?

If two numbers are co-primes, at least one of them must be prime.



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130. Which of the following statements are true ?

All numbers which are divisible by 4 must also be divisible by 8.



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131. Which of the following statements are true ?

All numbers which are divisible by 8 must also be divisible by 4.



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132. Which of the following statements are true ?

If a number exactly divides two numbers separately, it must exactly divide their sum.





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133. Which of the following statements are true ?

If a number exactly divides the sum of two numbers, it must exactly divide the two numbers separately.



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134. Here are two different factor trees for 60. Write the missing numbers.



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135. Which factors are not included in the prime factorisation of a composite number?



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136. Write the greatest four digit number and express it in terms of its prime factors.



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137. Write the smallest five digit number and express it in the form of its prime factors.



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138. Find all the prime factors of 1729 and arrange them in ascending order. Now state the relation, if any, between two consecutive prime factors.



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139. The product of three consecutive numbers is always divisible by 6. Explain this statement with the help of some examples.



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140. The sum of two consecutive odd number is divisible by 4. Verify statement with help of some examples.



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141. In which of the following expressions, prime factorisation has been done:

$$24 = 2 \times 3 \times 4.$$



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142. In which of the following expressions, prime factorisation has been done:

$$56 = 1 \times 7 \times 2 \times 2 \times 2.$$





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143. In which of the following expressions, prime factorisation has been done:

$$70 = 2 \times 5 \times 7.$$



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144. In which of the following expressions, prime factorisation has been

done:

$$54 = 2 \times 3 \times 9.$$



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145. Determine if 25110 is divisible by 45.[Hint:5 and 9 are co-prime numbers.Test the divisibility of the numbers by 5 and 9.].



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146. 18 is divisible by both 2 and 3 .It is also divisible by $2 \times 3 = 6$.Similarly, a number is divisible by both 4 and 6.Can we say tyhat number must also be divisible by $4 \times 6 = 24$?If not,give one example to justify yur answer.



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147. I am the smallest number ,having four different prime factors.Can you find me ?



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148. Renu purchases two bags of fertiliser of weights 75 kg. and 69. Find the maximum capacity of weight which can measure the weight of the fertiliser exact number of times.



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149. Three boys step off together from the same spot. Their steps measure 63 cm, 70 cm and 77 cm respectively. What is the minimum

distance each should cover so that all can over the distance in complete steps ?



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150. The length, breadth and height of a room are 825 cm, 675 cm and 450 cm respectively. Find the longest tape which can measure the three dimensions of the room exactly.



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151. Determine the smallest 3-digit number which is exactly divisible by 6 and 12.



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152. Determine the largest 3-digit number exactly divisible by 8,10 and 12.



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153. The Traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively, If they change simultaneously at 7 am at what time will they change simultaneously again ?



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154. Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find the maximum capacity of a container that can

measure the diesel of the three containers exact number of times.



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155. Find the least number which when divided by 6, 15 and 18 leave remainder 5 in each case.



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156. Find the smallest four digit number which is divisible by 18,24 and 32.



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157. Find the L.C.M. of the following numbers in which one number is always a multiple of 3:
9 and 4.

Observe a common property in the obtained L.C.M.s. Is L.C.M. the product of two numbers in each case ? Is L.C.M. always a multiple of 3 ?



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158. Find the L.C.M. of the following numbers in which one number is always a multiple of 3:
12 and 5.

Observe a common property in the obtained L.C.M.s. Is L.C.M. the product of two numbers in each case ? Is L.C.M. always a multiple of 3 ?



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159. Find the L.C.M. of the following numbers in which one number is always a multiple of 3:

6 and 5.

Observe a common property in the obtained L.C.M.s. Is L.C.M. the product of two numbers in each case ? Is L.C.M. always a multiple of 3 ?



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160. Find the L.C.M. of the following numbers in which one number is always a multiple of 3:
15 and 4.

Observe a common property in the obtained

L.C.M.s. Is L.C.M. the product of two numbers in each case ? Is L.C.M. always a multiple of 3 ?



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161. Find the L.C.M. of the following numbers in which one number is the factor of the other :

5,20

What do you observe in the results obtained.



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162. Find the L.C.M. of the following numbers in which one number is the factor of the other :

6,18

What do you observe in the results obtained.



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163. Find the L.C.M. of the following numbers in which one number is the factor of the other :

12,48

What do you observe in the results obtained.



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164. Find the L.C.M. of the following numbers in which one number is the factor of the other :

9,45.

What do you observe in the results obtained.



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Exercise

1. Write all the factors of the following number

:

12



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2. Write all factors each of the following:

54



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3. Write all the factors of the following number :

36



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4. Write all factors each of the following:

121



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5. Write all factors each of the following:

243



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6. Write the first five multiples of :

7



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7. Write first five multiples of :

9



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8. Write the first five multiples of :

11



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9. Write the first five multiples of :

15



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10. Write the first five multiples of :

21



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11. Which of the following have 27 as a factor?

6561



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12. Which of the following have 27 as a factor?

177147



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13. Which of the following have 27 as a factor?

24356



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14. List all prime numbers between:

21 and 90



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15. List all prime numbers between:

110 and 140.



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16. Express each of the following numbers as a sum of two odd primes :

36



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17. Express each of the following numbers as a sum of two odd primes :

59



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18. Express each of the following numbers as a sum of two odd primes :

82



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19. Express each of the following numbers as a sum of two odd primes :

106



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20. Express each of the following numbers as a sum of two odd primes :

92



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21. Express each of the following as a sum of three odd primes:

41



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22. Express each of the following as a sum of three odd primes:

35



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23. Express each of the following as a sum of three odd primes:

55



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24. Tell whether each of the following statements is true or false:

Every natural number is a multiple of itself.



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25. Tell whether each of the following statements is true or false:

Sum of two odd numbers is an even number.



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26. Tell whether each of the following statements is true or false:

Every prime number is odd.



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27. Tell whether each of the following statements is true or false:

Every natural number is either prime or composite.



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28. Tell whether each of the following statements is true or false:

The product of two odd numbers is always an odd number.



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29. Tell whether each of the following statements is true or false:

31 is a factor of 20.



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30. Tell whether each of the following statements is true or false:

1 is a factor of every natural number.



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31. Tell whether each of the following statements is true or false:

both 3 and 9 are factors of 15.



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32. Tell whether each of the following statements is true or false:

1 is a prime number.



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33. Tell whether each of the following statements is true or false:

2 is the only even prime number .



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34. Tell whether each of the following statements is true or false:

9 is the smallest odd composite number.



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35. Tell whether each of the following statements is true or false:

There are many prime triplets.



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36. Using divisibility tests ,determine which of the follwing number are divisible by 2
?,br>236,450,791,565,207,394.



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37. Which of the following number divisible by

3?

336



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38. Which of the following number divisible by

3?

453



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39. Which of the following number divisible by 3?

693



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40. Which of the following number divisible by 3?

656



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41. is the following number divisible by 3?

207



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42. is the following number divisible by 3?

394



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43. Which of the following number divisible by

5?



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44. Which of the following number divisible by 5?

5502



[Watch Video Solution](#)

45. Which of the following number divisible by 5?

28450



[Watch Video Solution](#)

46. Which of the following number divisible by 5?

27250



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47. Which of the following number are divisibble by 11?

15440



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48. is the following number are divisibble by
11?

12584



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49. Which of the following number are
divisibble by 11?

1000001



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50. Which of the following number are divisibble by 11?

70169803



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51. Which fo the following statements are true?

1005 is divisible by 10.



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52. Which fo the following statements are true?

No number is divided by 0.



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53. Which fo the following statements are true?

15 is a factor of 105 and 21 is also factor of 105. Then 36 and 6 are also factors of 105.



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54. Find the common factors of :

20 and 50.



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55. Find the common factors of :

4 and 8



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56. Find the common factors of :

3 and 27.



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57. Find the common factors of :

6,12 and 18.



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58. Find the common factors of :

7,21 and 35.



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59. Find first five common multiples of:

3 and 5.



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60. Find first five common multiples of:

12 and 18.



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61. Find first five common multiples of:

3 and 9.



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62. Which of the following are co-prime numbers?

17 and 35.



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63. Which of the following are co-prime numbers?

15 and 19.



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64. Which of the following are co-prime numbers?

15 and 24.



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65. Which of the following are co-prime numbers?

12 and 30.



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66. Which of the following statements are true:

If a number is divisible by 18, it is even and divisible by 9.



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67. The difference of two distinct even numbers is an even number.



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68. If a number is divisible by two odd numbers, it is divisible by their product.



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69. If a number is a factor of each of the two given numbers it is also a factor of their product.



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70. A number is divisible by 4 and 12. Is it necessary that it will be divisible by their product ?



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71. 6 is a factor of 12066 and 49320. Is 6 a factor of $49320 + 12066$ and $49320 - 12066$?



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72. 11 divides 44 and 44 divides 396. Does 11 divide 396?



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73. Write the prime factorisation of the following number :

52



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74. Write the prime factorisation of the following number :

48



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75. Write the prime factorisation of the following number :

84



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76. Write the prime factorisation of the following number :

36



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77. Write the prime factorisation of the following number :

120



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78. Write the prime factorisation of the following number :

630



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79. Write the prime factorisation of the following number :

130



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80. Write the prime factorisation of the following number :

260



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81. Which of the following are not prime factorisation:

$86 = 2 \times 43.$



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82. Which of the following are not prime factorisation:

$$112 = 2 \times 2 \times 2 \times 2 \times 7.$$



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83. Which of the following are not prime factorisation:

$$90 = 3 \times 30.$$



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84. Which of the following are not prime factorisation:

$$130 = 2 \times 5 \times 13.$$



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85. Find H.C.F of :

24 and 36



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86. Find H.C.F of :

15,25 and 30.



Watch Video Solution

87. Find H.C.F of :

8 and 12



Watch Video Solution

88. Find H.C.F of :

12,16 and 28.



Watch Video Solution

89. Find H.C.F of the following numbers:

18,48



Watch Video Solution

90. Find H.C.F of the following numbers:

18,60



Watch Video Solution

91. Find H.C.F of the following numbers:

30,42



Watch Video Solution

92. Find H.C.F of the following numbers:

27,63



Watch Video Solution

93. Find H.C.F of the following numbers:

36,84



Watch Video Solution

94. Find H.C.F of the following numbers:

34,102



Watch Video Solution

95. Find H.C.F of the following numbers:

70,105,175



Watch Video Solution

96. Find H.C.F of the following numbers:

91,112,49



Watch Video Solution

97. Find H.C.F of the following numbers:

18,54,81



Watch Video Solution

98. What is the H.C.F of two consecutive numbers?



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99. What is the H.C.F of two consecutive even numbers?



Watch Video Solution

100. What is the H.C.F of two consecutive odd numbers?



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101. H.C.F. of co-prime numbers 4 and 15 was found as follows: factorisation : $4 = 2 \times 2$ and $15 = 3 \times 5$. since there is no common prime factor, so H.C.F. of 4 and 15 is 1. Is the answer correct? If not, what is the correct H.C.F ?



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102. Find the H.C.F off :

9 and 12



Watch Video Solution

103. Find the H.C.F off :

18 and 54



Watch Video Solution

104. Find the H.C.F off :

80 and 100



Watch Video Solution

105. Find the H.C.F off :

28 and 42



Watch Video Solution

106. Find the H.C.F off :

15 and 75



Watch Video Solution

107. Find the H.C.F off :

72 and 126.



Watch Video Solution

108. Find the H.C.F. of :

12, 18 and 30.

A. 4

B. 6

C. 8

D. 12

Answer: B



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109. Find the H.C.F. of :

18,54 and 90.



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110. Find the least number which is exactly divisible by 12,16 and 64.



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111. Two big packets of books contain 84 and 105 books respectively. These books are to be

packed into small packets which will contain same number of books. How many maximum number of books can be packed in each small packet?



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112. The length, breadth and height of a room are 6m 80 cm, 5m 10 cm and 3 m 40 cm respectively. Find the longest tape which can measure the dimension of the room exactly?



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113. Four boxes can hold 24 kg, 36 kg, 48 kg and 54 kg respectively. Find the least amount of weight which can put into exact number of boxes.



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114. Find the least number which when divided by 12, 15, 18 and 36 leave 10 as remainder .



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115. The number of students in three sections A,B,C of class VI in a school are 32,34 and 38 .Find the minimum number of books equired for the class librery for equal distribution in sectio A,B and C.



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116. Which of the following is a prime number ?

A. 23

B. 51

C. 39

D. 26

Answer:



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117. Which of the following is a prime number ?

A. 32

B. 30

C. 31

D. 33

Answer:



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118. Which of the following is a composite number?

A. 12

B. 19

C. 29

D. 31

Answer:



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119. Which of the following is an even number?

A. 13

B. 15

C. 16

D. 19

Answer:



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120. Which of the following is an odd number?

A. 12

B. 13

C. 14

D. 20

Answer:



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121. Which of the following is an even prime number?

A. 2

B. 3

C. 4

D. 5

Answer:



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122. What is the greatest prime number between 1 and 10?

A. 2

B. 3

C. 5

D. 7

Answer:



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123. Which of the following is neither prime nor composite number?

A. 1

B. 2

C. 3

D. 4

Answer: A



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124. Fill in the blanks in the following:

A number which has only two factors is called
a

- A. Prime number
- B. Comoposite number
- C. Even number
- D. Odd number.

Answer:



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125. Fill in the blanks in the following:

A number which has only two factors is called
a

- A. Even number
- B. Prime number
- C. Odd number
- D. Composite number.

Answer:



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