

Lesson -3 Playing with numbers

Fill in the blanks.

1. The greatest single digit prime number is _____.
2. The only even prime number is _____.
3. _____ is an example for a perfect number.
4. The HCF of two prime numbers is _____.
5. The LCM of two numbers that have no common factor is _____.
6. A number that is neither prime nor composite is _____.
7. The greatest prime number less than 100 is _____.
8. _____ is the smallest composite number.
9. A number is divisible by 6 if it is divisible by both _____ and _____.
10. The LCM of 5 and 20 is _____.
11. Two numbers having only 1 as common factor are called _____.
12. The sum of any two odd numbers is _____.
13. _____ is a factor of every number.
14. The numbers that are multiples of two are called _____.
15. The HCF of two consecutive even numbers is _____.

Write True or False. If false give the correct answer.

16. 10 is a perfect number.
17. If an even number is divided by 2, the quotient is always odd.
18. All even numbers are composite.
19. 572 is divisible by 4.
20. If a number is divisible by 14, it must be divisible by 7.

Do as directed.

21. Write all prime numbers less than 15.
22. Write all the factors and first 5 multiples of 20.
23. Express 48 as sum of two odd primes.
24. Using divisibility tests determine whether 218750 is divisible by 6, by 8 and by 9.
25. Write the digit in the blank space so that the number 701__9308 is divisible by 11.
26. Are 16 and 81 co- prime?
27. Write the smallest four digit number and express it in terms of prime factors.
28. Is it correct to say that the HCF of 8 and 15 is 0? If not why?
29. Find the greatest 3 digit number which is divisible by 12, 18 and 24.
30. Find the least number which when divided by 8, 10 and 16 and leave remainder 3 in each case.
31. Two tankers contain 580 litres and 860 litres of oil respectively. Find the maximum capacity of the container which can measure the oil of both the tankers when used an exact number of times.

32. The length, breadth and width of a room are 80m, 85m and 90 m respectively. Find the length of the largest tape that can measure the three dimensions of the room exactly.
33. Find the smallest 3 digit number that is exactly divisible by 6, 15 and 18.
34. Three bells commence tolling simultaneously. If they ring at intervals of 40sec, 48sec and 50 sec respectively when will they ring together again?
35. Two wires of length 448 cm and 616 cm are to be cut in to small pieces of equal length without wasting the wire. What is the maximum length of each piece?
36. On a track for remote controlled racing cars, racing car A completes the track in 28 seconds and racing car B completes the track in 24 second. If they both start at the same time, after how many seconds will they be side by side again?
37. 294 blue balls, 252 pink balls and 210 yellow balls are distributed equally among some students with none left over. What is the biggest possible number of students?
38. Jesslyn goes to the market every 64 days. Christine goes to the same market every 72 days. They met each other one day. How many days later will they meet each other again?
39. Leonard wants to cut identical square as big as he can from a piece of paper 168 mm by 196 mm. What is the length of each square?
40. As a humanitarian effort, food ration is distributed to each refugee in a refugee camp. If a day's ration is 284 packets of biscuits, 426 packets of instant noodles and 710 bottles of water, how many refugees are there in the camp?