

**Class: 6**  
**Subject: Mathematics**  
**Topic: Playing with Numbers**  
**No. of Questions: 20**

- Q1. Find the prime factors of 45, 30, 36.
- Q2. Write first five multiples of 5,8,9
- Q3. Give three pairs of prime numbers whose difference is 2.
- Q4. Express each of the following numbers as the sum of three odd numbers:
- (a) 21
  - (b) 31
  - (c) 53
  - (d) 61
- Q5. Is 579964 divisible by 4?
- Q6. Is 672 divisible by 6?
- Q7. Is the number 8050314052 divisible by 11?
- Q8. 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:
- (a) \_\_\_\_6274
  - (b) 4765\_\_\_\_2
- Q9. Write all the numbers less than 100 which are common multiples of 3 and 4.
- Q10. A number is divisible by both 5 and 12. By which other number will that number be always divisible?

- Q11. Find the all the prime factors of 1729 and arrange them in ascending order. Now state the relation, if any; between two consecutive prime factors.
- Q12. The sum of two consecutive odd numbers is divisible by 4. Verify this statement with the help of some examples.
- Q13. I am the smallest number, having four different prime factor. Can you find me?
- Q14. Find the H.C. F. of 150, 140 and 210.
- Q15. Given that the L.C.M. of two numbers is 16 and their product is 64, determine their H.C.F.
- Q16. 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 cover the distance in complete steps?
- Q17. Determine the smallest 3-digit number which is exactly divisible by 6, 8 and 12.
- Q18. 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 container exact number of times.
- Q19. Find the smallest four digit number which is divisible by 18, 24 and 32.
- Q20. Determine if 25110 is divisible by 45.