CHAPTER-9

PLAYING WITH NUMBERS

QUESTION BANK

AVERAGE LEVEL

1. 19 – (1 + 5) – 3

2. 30 × 6 ÷ (5 – 2)

3. 28 – (3 × 8) ÷ 6

4. 9 – [(4 – 3) + 2 × 5]

5. [18 – (15 ÷ 5) + 6]

6. [(4 × 2) – (4 ÷ 2)] + 8

7. 48 + 96 ÷ 24 – 6 × 18

8. 22 – [3 – {8 – (4 + 6)}]

9. 34 – [29 – {30 + 66 ÷ (24 – 28)}]

10. 60 – {16 ÷ (4 × 6 – 8)}

11. 25 – [12 – {5 + 18 ÷ (4 – 3)}]

12. 15 – [16 – {12 + 21 ÷ (9 – 2)}]

13. Fill in the blanks:

(i) On dividing 9 by 7, quotient = …….. and remainder = ……..

(ii) On dividing 18 by 6, quotient = …….. and remainder = ……

(iii) Factor of a number is …….. of ……..

(iv) Every number is a factor of ……

(v) Every number is a multiple of ……

(vi) ……. is factor of every number.

(vii) For every number, its factors are ……. and its multiples are …….

(viii) x is a factor of y, then y is a …….. of x.

14. Write all the factors of:

(i) 16 **(ii) 21**

(iii) 39 **(iv) 48**

(v) 64 **(vi) 98**

15. Write the first six multiples of:

(i) 4 (ii) 9

(iii) 11 (iv) 15

(v) 18 (vi) 16

MODERATE LEVEL

16. The product of two numbers is 36 and their sum is 13. Find the numbers.

17. The product of two numbers is 48 and their sum is 16. Find the numbers.

18. Without making any actual division show that 7007 is divisible by 7.

19. Without making any actual division show that 2300023 is divisible by 23

20. Without making any actual division, show that each of the following numbers is divisible by 11

(i) 11011 (ii) 110011 (iii) 11000011

21. Without actual division, show that each of the following numbers is divisible by 8

(i) 1608 ii) 56008 (iii) 240008

22. Find which of the following numbers are divisible by 2:

(i) 352 (ii) 523 (iii) 496 (iv) 649

23. Find which of the following number are divisible by 4:

(i) 222 (ii) 532 (iii) 678 (iv) 9232

24. Find which of the following numbers are divisible by 8:

(i) 324 (ii) 2536 (iii) 92760 (iv) 444320

25. Find which of the following numbers are divisible by 3:

(i) 221 (ii) 543 (iii) 28492 (iv) 92349

26. Find which of the following numbers are divisible by 9:

(i) 1332 ii) 53247 (iii) 4968 (iv) 200314

27. Find which of the following number are divisible by 6:

(i) 324 (ii) 2010 (iii) 33278 (iv) 15505

28. Find which of the following numbers are divisible by 5:

(i) 5080 (ii) 66666 (iii) 755 (iv) 9207

29. Find which of the following numbers are divisible by 10:

(i) 9990 (ii) 0

(iii) 847 (iv) 8976

30. Find which of the following numbers are divisible by 11:

(i) 5918 (ii) 68,717

(iii) 3882 (iv) 10857

31. Find which of the following numbers are divisible by 15:

(i) 960 (ii) 8295

(iii) 10243 (iv) 5013

HIGHER LEVEL

32. In each of the following numbers, replace M by the smallest number to make resulting number divisible by 3:

(i) 64 M 3 (ii) 46 M 46 (iii) 27 M 53

33. In each of the following numbers replace M by the smallest number to make resulting number divisible by 9

(i) 76 M 91 (ii) 77548 M (iii) 627 M 9

34. In each of the following numbers, replace M by the smallest number to make resulting number divisible by 11

(i) 39 M 2 (ii) 3 M 422 (iii) 70975 M (iv) 14 M 75

35. State, true or false:

(i) If a number is divisible by 4. It is divisible by 8

(ii) If a number is a factor 16 and 24, it is a factor of 48

(iii) If a number is divisible by 18, it is divisible by 3 and 6

(iv) If a divide b and c completely, then a divides (i) a + b (ii) a – b also completely.

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