



CLASS 9 MATHEMATICS



CHAPTER 3 – THE WORLD OF NUMBERS



MCQ WORKSHEET | Ganita Manjari | 2026–27

These MCQs are based on the **new Chapter 3 – “The World of Numbers”** from *Ganita Manjari*. The chapter includes the development of number systems, natural numbers, whole numbers, integers, rational and irrational numbers, real numbers, properties of operations, exponents and number representation.

Name: _____

Class: IX Section: _____

Date: _____



Instructions

- Choose the **one correct answer**.
 - Attempt all questions.
 - **Total: 40 MCQs**
-



PART A – NUMBER SYSTEM BASICS

1. Which of the following is a natural number?

- A. 0
 - B. -3
 - C. 7
 - D. -8
-

2. The set of natural numbers is:

- A. {0, 1, 2, 3, ...}
- B. {1, 2, 3, 4, ...}

- C. $\{\dots, -2, -1, 0, 1, 2, \dots\}$
 - D. $\{1, 3, 5, 7, \dots\}$
-

3. Which of the following is a whole number but not a natural number?

- A. 1
 - B. 2
 - C. 0
 - D. 5
-

4. Which set contains positive and negative integers as well as zero?

- A. Natural numbers
 - B. Whole numbers
 - C. Integers
 - D. Rational numbers
-

5. Which of the following is an integer?

- A. $3/5$
 - B. $\sqrt{2}$
 - C. -7
 - D. 2.5
-

6. The set of integers is represented by:

- A. N
 - B. W
 - C. Z
 - D. Q
-

7. Which of the following is not an integer?

- A. -9
 - B. 0
 - C. 12
 - D. $\frac{3}{4}$
-

8. The additive identity for integers is:

- A. -1
 - B. 0
 - C. 1
 - D. 10
-

PART B – ZERO & INTEGERS

9. According to the rules of arithmetic with zero:

$$a + 0 =$$

- A. 0
 - B. 1
 - C. a
 - D. -a
-

10. The value of:

$$a \times 0$$

is:

- A. a
 - B. 1
 - C. -a
 - D. 0
-

11. Which statement is correct?

- A. $a - 0 = 0$
 - B. $a - 0 = a$
 - C. $a - 0 = -a$
 - D. $a - 0 = 1$
-

12. What is:

$-8 + 13?$

- A. -21
 - B. -5
 - C. 5
 - D. 21
-

13. What is:

$-7 - 5?$

- A. -12
 - B. -2
 - C. 2
 - D. 12
-

14. What is:

$(-6) \times (-4)?$

- A. -24
 - B. 24
 - C. -10
 - D. 10
-

15. What is:

$(-8) \times 5?$

- A. 40
 - B. -40
 - C. -13
 - D. 13
-

16. The product of two negative integers is:

- A. Always negative
 - B. Always positive
 - C. Always zero
 - D. Sometimes zero
-

PART C – RATIONAL NUMBERS

17. Which of the following is a rational number?

- A. $\sqrt{2}$
 - B. π
 - C. $3/7$
 - D. $\sqrt{5}$
-

18. A rational number can be written in the form:

- A. p/q , where p, q are integers and $q \neq 0$
 - B. $p/0$
 - C. $\sqrt{p}$ only
 - D. $p \times q$ only
-

19. Which of the following is a rational number?

- A. 0.75
- B. $\sqrt{3}$
- C. π
- D. $\sqrt{7}$

20. The decimal expansion of a rational number is:

- A. Always non-terminating and non-repeating
 - B. Either terminating or non-terminating recurring
 - C. Always terminating
 - D. Always irrational
-

21. Which fraction has a terminating decimal expansion?

- A. $\frac{1}{3}$
 - B. $\frac{2}{7}$
 - C. $\frac{3}{8}$
 - D. $\frac{5}{11}$
-

22. Which of the following is equivalent to 0.25 ?

- A. $\frac{1}{2}$
 - B. $\frac{1}{4}$
 - C. $\frac{2}{5}$
 - D. $\frac{3}{4}$
-

23. Which is greater?

- A. $-\frac{2}{3}$
 - B. $-\frac{1}{3}$
 - C. Both are equal
 - D. Cannot be determined
-

24. The number $-\frac{5}{8}$ lies:

- A. To the right of 0 on the number line
- B. To the left of 0 on the number line

- C. At 0
 - D. At 1
-

PART D – IRRATIONAL & REAL NUMBERS

25. Which of the following is irrational?

- A. $\frac{1}{2}$
 - B. 0.75
 - C. $\sqrt{2}$
 - D. -4
-

26. Which of the following has a non-terminating, non-repeating decimal expansion?

- A. $\frac{1}{4}$
 - B. $\frac{2}{5}$
 - C. $\sqrt{2}$
 - D. $\frac{3}{8}$
-

27. Which of the following is irrational?

- A. $\sqrt{9}$
 - B. $\sqrt{16}$
 - C. $\sqrt{25}$
 - D. $\sqrt{7}$
-

28. The set of rational and irrational numbers together is called:

- A. Integers
- B. Natural numbers

- C. Real numbers
 - D. Whole numbers
-

29. Which statement is true?

- A. Every rational number is irrational
 - B. Every irrational number is rational
 - C. Every rational and irrational number is real
 - D. No irrational number is real
-

30. Which of the following is a real number?

- A. $\sqrt{2}$
 - B. $\frac{5}{7}$
 - C. -3
 - D. All of these
-

PART E – EXPONENTS & POWERS

31. The value of:

2^3

is:

- A. 5
 - B. 6
 - C. 8
 - D. 9
-

32. The value of:

5^0

is:

- A. 0
 - B. 1
 - C. 5
 - D. -1
-

33. Which expression is equal to:

$$2^3 \times 2^4?$$

- A. 2^7
 - B. 2^{12}
 - C. 4^7
 - D. 2^1
-

34. $a^m \times a^n$ is equal to:

- A. a^{m-n}
 - B. a^{m+n}
 - C. a^{mn}
 - D. $2a^{m+n}$
-

35. $a^m \div a^n$, where $a \neq 0$, is equal to:

- A. a^{m+n}
 - B. a^{m-n}
 - C. a^{mn}
 - D. a^{n-m}
-



PART F – HIGHER-ORDER MCQs

36. Which statement is correct?

- A. Every integer is a natural number
 - B. Every natural number is an integer
 - C. Every integer is irrational
 - D. Every irrational number is an integer
-

37. Which number lies between $\sqrt{2}$ and $\sqrt{3}$?

- A. 1
 - B. 2
 - C. $\sqrt{5}$
 - D. 3
-

38. If:

$$x = -3$$

then the value of:

$$x^2$$

is:

- A. -9
 - B. -6
 - C. 6
 - D. 9
-

39. Which of the following statements about $\sqrt{2}$ is correct?

- A. It is a natural number
 - B. It is an integer
 - C. It is rational
 - D. It is irrational
-

40. Which ordering is correct?

- A. $\text{Natural} \subset \text{Whole} \subset \text{Integers} \subset \text{Rational} \subset \text{Real}$
 B. $\text{Real} \subset \text{Rational} \subset \text{Integers} \subset \text{Whole}$
 C. $\text{Integers} \subset \text{Natural} \subset \text{Rational} \subset \text{Real}$
 D. $\text{Rational} \subset \text{Natural} \subset \text{Integers} \subset \text{Real}$
-



ANSWER KEY

Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	C	11	B	21	C	31	C
2	B	12	C	22	B	32	B
3	C	13	A	23	B	33	A
4	C	14	B	24	B	34	B
5	C	15	B	25	C	35	B
6	C	16	B	26	C	36	B
7	D	17	C	27	D	37	B
8	B	18	A	28	C	38	D
9	C	19	A	29	C	39	D
10	D	20	B	30	D	40	A



CHAPTER 3 QUICK REVISION



Number Sets

Natural Numbers (N):

$\{1, 2, 3, 4, \dots\}$

Whole Numbers (W):

$\{0, 1, 2, 3, \dots\}$

Integers (Z):

$\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$

The chapter introduces integers as an extension of the number line to include zero and negative numbers.

Rational Numbers

Numbers expressible as:

p/q , where p and q are integers and $q \neq 0$.

Irrational Numbers

Numbers that **cannot** be expressed as p/q .

Examples:

$\sqrt{2}$, $\sqrt{3}$, π

Real Numbers

Rational numbers + Irrational numbers = Real numbers

Important Sign Rules

$$(+) \times (+) = +$$

$$(-) \times (-) = +$$

$$(+) \times (-) = -$$

$$(-) \times (+) = -$$

Exponent Rules

$$a^m \times a^n = a^{m+n}$$

$$a^m \div a^n = a^{m-n}$$

$$(a^m)^n = a^{mn}$$

$$a^0 = 1, \text{ for } a \neq 0$$

SCORE

36–40:  Excellent!

30–35:  Very Good!

24–29:  Good!

Below 24:  Revise Chapter 3 and try again!