Class – 6th
Chapter-7 (Fractions)

Multiple Choice Question

1. A fraction represents _____.
   A) Only whole numbers
   B) A part of a whole
   C) A multiple of a number
   D) None of these
2. In the fraction $\frac{3}{4}$, 3 is called the _____.
   A) Denominator
   B) Multiplier
   C) Numerator
   D) Dividend
3. The denominator of a fraction tells us _____.
   A) How many equal parts the whole is divided into
   B) How many parts are taken
   C) Both A and B
   D) None of these
4. Which of the following fractions is equal to one-half?
   A) $\frac{2}{3}$
   B) $\frac{3}{6}$
   C) $\frac{3}{4}$
   D) $\frac{1}{3}$
5. Fractions having the same denominator are called _____ fractions.
   A) Improper
   B) Mixed
   C) Like
   D) Unlike
6. Which of the following is an improper fraction?
   A) $\frac{2}{5}$
   B) $\frac{3}{8}$
   C) $\frac{7}{4}$
   D) $\frac{1}{6}$
7. A mixed fraction is made up of _____.
   A) Two proper fractions
   B) A whole number and a proper fraction
   C) Two improper fractions
   D) None of these
8. The fraction $\frac{5}{5}$is equal to _____.
   A) 0
   B) 1

C) 5
D) 10

9. Which of the following fractions is equivalent to $\frac{2}{3}$?
   A) $\frac{4}{6}$
   B) $\frac{3}{2}$
   C) $\frac{3}{4}$
   D) $\frac{2}{6}$
10. To simplify a fraction, we divide the numerator and denominator by their _____.
   A) LCM
   B) HCF
   C) Product
   D) Difference
11. Which fraction is smaller: $\frac{3}{8}$or $\frac{5}{8}$?
   A) $\frac{3}{8}$
   B) $\frac{5}{8}$
   C) Both are equal
   D) Cannot be compared
12. The reciprocal of $\frac{4}{7}$is _____.
   A) $\frac{7}{4}$
   B) $\frac{4}{7}$
   C) $\frac{1}{7}$
   D) $\frac{1}{4}$
13. Which of the following fractions is a proper fraction?
   A) $\frac{9}{8}$
   B) $\frac{5}{5}$
   C) $\frac{4}{9}$
   D) $\frac{7}{3}$
14. $\frac{2}{5}+\frac{1}{5}=$_____
   A) $\frac{2}{10}$
   B) $\frac{3}{5}$
   C) $\frac{3}{10}$
   D) $\frac{2}{3}$
15. $\frac{5}{9}-\frac{2}{9}=$_____
   A) $\frac{3}{9}$
   B) $\frac{7}{9}$

C) $\frac{1}{9}$
D) $\frac{9}{7}$

16. $\frac{3}{4}$ of 16 is _____.
    A) 4
    B) 8
    C) 10
    D) 12
17. Which of the following is **not** an equivalent fraction of $\frac{1}{2}$?
    A) $\frac{2}{4}$
    B) $\frac{3}{6}$
    C) $\frac{4}{8}$
    D) $\frac{2}{3}$
18. When the numerator and denominator of a fraction are multiplied by the same number, the value of the fraction _____.
    A) Increases
    B) Decreases
    C) Remains the same
    D) Becomes zero
19. Which of these is the greatest fraction?
    A) $\frac{3}{10}$
    B) $\frac{7}{10}$
    C) $\frac{5}{10}$
    D) $\frac{2}{10}$
20. What is $2\frac{1}{3}$ written as an improper fraction?
    A) $\frac{5}{3}$
    B) $\frac{7}{3}$
    C) $\frac{6}{3}$
    D) $\frac{4}{3}$

Fill in the Blanks

1. A fraction represents a part of a _____.
2. In the fraction $\frac{5}{8}$, the number 5 is called the _____.
3. In the fraction $\frac{5}{8}$, the number 8 is called the _____.
4. Fractions that have the same denominator are called _____ fractions.
5. Fractions that have different denominators are called _____ fractions.
6. The value of $\frac{6}{6}$ is equal to _____.
7. A fraction whose numerator is smaller than its denominator is called a _____ fraction.

8. A fraction whose numerator is greater than or equal to its denominator is called an _____ fraction.
9. A fraction that contains a whole number and a proper fraction is called a _____ fraction.
10. $\frac{3}{4}$and $\frac{6}{8}$are _____ fractions.
11. To find an equivalent fraction, multiply or divide both numerator and denominator by the same _____.
12. The reciprocal of $\frac{2}{3}$is _____.
13. The fraction $\frac{4}{1}$represents the _____ number 4.
14. When two fractions have the same denominator, the fraction with the larger numerator is _____.
15. The simplest form of $\frac{6}{9}$is _____.
16. To add like fractions, we add the _____ and keep the denominator same.
17. To subtract like fractions, we subtract the _____ and keep the denominator same.
18. $\frac{2}{5}$of 20 = _____.
19. A fraction between 0 and 1 is always a _____ fraction.
20. When numerator and denominator of a fraction are equal, the fraction is equal to _____.

True and False

1. A fraction represents a part of a whole.
2. In the fraction $\frac{3}{7}$, 7 is the numerator.
3. Fractions having the same denominator are called like fractions.
4. $\frac{2}{3}$and $\frac{3}{2}$are like fractions.
5. $\frac{4}{8}$and $\frac{1}{2}$are equivalent fractions.
6. An improper fraction is always greater than or equal to 1.
7. A mixed fraction contains a whole number and a proper fraction.
8. The reciprocal of $\frac{5}{6}$is $\frac{6}{5}$.
9. The fraction $\frac{7}{7}$is equal to 1.
10. $\frac{2}{4}$and $\frac{1}{2}$are not equivalent fractions.
11. $\frac{3}{5}$is greater than $\frac{4}{5}$.
12. A proper fraction is always less than 1.
13. To simplify a fraction, we divide numerator and denominator by their HCF.
14. Multiplying the numerator and denominator of a fraction by the same number does not change its value.
15. The reciprocal of $\frac{1}{2}$is $\frac{2}{1}$.
16. $\frac{9}{3}$is a proper fraction.
17. $\frac{8}{10}$in simplest form is $\frac{4}{5}$.
18. Fractions with different denominators are called unlike fractions.
19. The sum of $\frac{1}{6}$and $\frac{1}{6}$is $\frac{2}{6}$.

20. If numerator = denominator, the fraction equals 1.

Long Answer Questions

1. Write any four equivalent fractions of $\frac{2}{3}$. Explain how you found them.
2. Simplify $\frac{12}{18}$and explain the steps used to reduce it to its simplest form.
3. Convert $3\frac{2}{5}$into an improper fraction and explain the method used.
4. Convert $\frac{17}{4}$into a mixed fraction, showing all the steps.
5. Compare $\frac{5}{8}$and $\frac{3}{4}$. Which is greater and why?
6. Find three fractions equivalent to $\frac{4}{6}$by multiplying numerator and denominator by the same number.
7. Add $\frac{3}{10}$, $\frac{2}{10}$, and $\frac{4}{10}$. Explain how you added like fractions.
8. Subtract $\frac{5}{9}$from $\frac{8}{9}$. Explain each step clearly.
9. Add $\frac{3}{8}$and $\frac{2}{4}$by converting them into like fractions.
10. Subtract $\frac{1}{3}$from $\frac{3}{4}$. Find the LCM of denominators and show the working.
11. Multiply $\frac{3}{5}$by $\frac{4}{7}$. Write down all steps of multiplication.
12. Divide $\frac{5}{6}$by $\frac{2}{3}$. Explain the rule used for dividing fractions.
13. Find $\frac{2}{5}$of 25 and explain what "of" means in fractions.
14. Find $\frac{3}{4}$of 32 apples. Explain how many apples this represents.
15. A cake is divided into 8 equal parts. If 3 parts are eaten, write the fraction of the cake eaten and the fraction left.
16. A rope is 12 m long. Rohan uses $\frac{3}{4}$of it. How much rope is left?
17. Find the sum of $\frac{7}{10}$and $\frac{13}{20}$. Explain the process using LCM.
18. A car has covered $\frac{3}{5}$of its total journey. If the total journey is 250 km, how many km are left?
19. Find $\frac{2}{3}$of ₹120. Show all steps.
20. Compare $\frac{4}{5}$and $\frac{9}{10}$. Which is greater and by how much?
21. A rectangle is divided into 10 equal parts. 6 parts are shaded. What fraction of the rectangle is shaded? Simplify the fraction.
22. Find the equivalent fraction of $\frac{3}{7}$having denominator 21.
23. Find the equivalent fraction of $\frac{5}{9}$having numerator 20.
24. Add $2\frac{1}{3}$and $1\frac{1}{6}$. Show all steps by converting to improper fractions first.
25. Subtract $1\frac{1}{4}$from $3\frac{2}{3}$. Convert both to improper fractions and simplify.
26. Multiply $2\frac{1}{2}$by $\frac{3}{5}$. Show all working.
27. Divide $3\frac{3}{4}$by $\frac{5}{6}$and express the result as a mixed fraction.

28. Find the reciprocal of each: $\frac{4}{9}, \frac{3}{7}, \frac{8}{5}$. Explain the meaning of reciprocal.
29. If $\frac{2}{3}$ of a number is 16, find the number. Explain your steps.
30. A tank is $\frac{2}{5}$ full of water. If it holds 50 litres when full, how much water is in the tank?
31. Reduce $\frac{45}{60}$ to its lowest terms. Explain the use of HCF in simplification.
32. Find the total of $\frac{3}{8}$, $\frac{5}{16}$, and $\frac{7}{32}$. Show all steps.
33. Subtract $\frac{4}{15}$ from $\frac{7}{10}$. Explain how to find the common denominator.
34. A worker completed $\frac{2}{3}$ of a job on Monday and $\frac{1}{6}$ on Tuesday. What fraction of the job is left?
35. In a class, $\frac{2}{5}$ of the students are boys. If there are 30 students, find how many are boys and how many are girls.
36. The sum of two fractions is $\frac{7}{8}$. If one fraction is $\frac{3}{8}$, find the other fraction.
37. If a piece of cloth is $\frac{5}{6}$ metre long, how many such pieces can be cut from a 5-metre roll?
38. Multiply $\frac{3}{4}$ by 20. Explain the meaning of multiplying a fraction by a whole number.
39. Divide 30 by $\frac{3}{5}$. Write all the steps and give the final answer.
40. A basket has $\frac{3}{8}$ of its apples spoiled. If there are 64 apples in total, how many apples are spoiled and how many are good?

Short Answer Question

1. What is meant by a fraction? Give one real-life example where fractions are used.
2. In the fraction $\frac{5}{9}$, identify the numerator and explain what it represents.
3. In the fraction $\frac{7}{8}$, identify the denominator and explain its meaning.
4. If a pizza is divided into 5 equal parts and 3 parts are eaten, what fraction of the pizza is eaten?
5. Write the fraction that represents 2 shaded parts out of 5 equal parts and name its type.
6. Identify whether $\frac{7}{4}$ is a proper or improper fraction and explain why.
7. Define a mixed fraction and give one example from daily life.
8. Convert $2\frac{1}{2}$ into an improper fraction and explain how you did it.
9. Convert $\frac{11}{3}$ into a mixed fraction, showing the steps clearly.
10. Find an equivalent fraction of $\frac{3}{5}$ that has 20 as the denominator and explain how you found it.
11. Find an equivalent fraction of $\frac{4}{9}$ that has 12 as the numerator. Explain your working.
12. Reduce $\frac{8}{12}$ to its simplest form by dividing both numerator and denominator by their HCF.

13. Write the reciprocal of $\frac{3}{7}$ and explain what the reciprocal of a fraction means.
14. Give one example of a fraction equal to 1 and explain why its value is 1.
15. Write any fraction whose value is 0 and explain the reason.
16. Compare $\frac{2}{3}$ and $\frac{3}{5}$. Which one is greater and why?
17. Between $\frac{5}{8}$ and $\frac{3}{4}$, which is greater? Show your comparison step.
18. Add $\frac{2}{7}$ and $\frac{3}{7}$. Explain why the denominators remain unchanged.
19. Subtract $\frac{2}{9}$ from $\frac{4}{9}$ and write your answer in simplest form.
20. Find the sum of $\frac{1}{3}$ and $\frac{1}{6}$ by converting them to like fractions.
21. Subtract $\frac{1}{8}$ from $\frac{3}{4}$ and show the steps involved.
22. Multiply $\frac{2}{5}$ by $\frac{3}{4}$ and explain how numerators and denominators are multiplied.
23. Divide $\frac{5}{8}$ by $\frac{1}{2}$ and explain how to divide fractions.
24. Find $\frac{3}{5}$ of 25. Explain what the word "of" means in fractional operations.
25. Find $\frac{4}{7}$ of 49 and explain how to calculate it quickly.
26. Multiply $\frac{5}{9}$ by 81 and explain what happens when a fraction is multiplied by a whole number.
27. Simplify $\frac{36}{48}$ by dividing both terms by their highest common factor.
28. Find the sum of $\frac{1}{10}$, $\frac{2}{10}$, and $\frac{3}{10}$. What type of fractions are these?
29. Subtract $\frac{3}{8}$ from $\frac{7}{8}$ and explain why subtraction is simple for like fractions.
30. Find the LCM of 4 and 6, then use it to add $\frac{3}{4}$ and $\frac{5}{6}$.
31. If $\frac{1}{3}$ of a number is 9, find the number and explain your reasoning.
32. If $\frac{2}{5}$ of a number equals 16, how can you find the total number?
33. A 2-litre bottle is $\frac{3}{4}$ full. How much liquid does it contain?
34. A car travels $\frac{3}{5}$ of a 250 km journey. How many kilometres has it covered?
35. Out of 24 chocolates, 6 are eaten. Write the fraction eaten and simplify it.
36. Write two examples of unlike fractions and explain why they are called unlike.
37. Write two examples of like fractions and explain why they are called like.
38. Which fraction lies between $\frac{1}{3}$ and $\frac{2}{3}$? Explain how you found it.
39. Among $\frac{1}{2}, \frac{3}{4}, \frac{2}{5}$, which one is the smallest fraction? Show your comparison.
40. Among $\frac{1}{3}, \frac{3}{8}, \frac{5}{6}$, which one is the greatest and how did you decide?