



Unit – 7

Fractions

A. Select the correct answer:

- If 5 children share 4 chocolate bars equally, then the fraction of a bar that each child gets is
 - $\frac{5}{4}$
 - $\frac{1}{4}$
 - $\frac{4}{5}$
 - $\frac{3}{5}$
- The improper fraction is
 - $\frac{13}{15}$
 - $\frac{17}{19}$
 - $\frac{43}{41}$
 - $\frac{99}{127}$
- A fraction equivalent to $\frac{4}{7}$ is
 - $\frac{4+2}{7+2}$
 - $4 \times \frac{2}{7} \times 2$
 - $\frac{4-3}{7-3}$
 - $\frac{4+3}{7+3}$
- A fraction equivalent to $\frac{3}{8}$ is
 - $\frac{12}{32}$
 - $\frac{3}{32}$
 - $\frac{4}{32}$
 - $\frac{11}{32}$
- If $\frac{2}{7}$ is equivalent to $\frac{x}{28}$, then $x =$
 - 6
 - 8
 - 4
 - 10
- The fraction equivalent to $\frac{42}{49}$ is
 - $\frac{48}{63}$
 - $\frac{6}{7}$
 - $\frac{3}{7}$
 - $\frac{24}{35}$
- The fraction $\frac{42}{70}$ in its simplest form is
 - $\frac{21}{35}$
 - $\frac{3}{5}$
 - $\frac{6}{10}$
 - $\frac{15}{25}$
- $\frac{1}{4} + \frac{1}{8}$ equals
 - $\frac{1}{4}$
 - $\frac{1}{2}$
 - $\frac{5}{8}$
 - $\frac{3}{8}$
- $\frac{17}{18} - \frac{5}{12}$ equals
 - $\frac{31}{36}$
 - $\frac{19}{36}$
 - $\frac{19}{72}$
 - $\frac{31}{72}$

B. Find the solutions to these very short-answer type questions.

1. Fill in the blanks.

i. Fraction for three-tenths = ____

ii. Fraction for four-sevenths = ____

iii. A fraction is said to be in its simplest form when the HCF of the numerator and denominator is ____

iv. If $\frac{a}{b}$ and $\frac{c}{d}$ are two fractions such that $ad > bc$, then fraction ____ is greater than fraction ____

v. Fractions having the same denominator are called ____ fractions.

2. There are 1000 g in a kg. What fraction of a kg is 700 g?

3. What fraction is 25 cm of 1 m?

4. What fraction of numbers 1 to 15 are prime?

5. What is the fraction of the letters made up of 3 line segments in the word MATHEMATICS.

6. Write a fraction for each of the following.

i. One-quarter

ii. Two-thirds

iii. Three-fourths

iv. Seven-ninths

v. Eleven-twelfths

7. Complete the following table.

i. $\frac{3}{5}$ of 15 pens

ii. $\frac{3}{4}$ of 28 toffees

iii. $\frac{2}{3}$ of 36 balls

iv. $\frac{5}{6}$ of 72 books

8. The average length of femur bone in human body is $10\frac{1}{2}$. Write its length as mixed Fraction

9. The four routes that Vijay can take, to his friend Deepak's place are $2\frac{1}{4}$ km , $2\frac{1}{2}$ km, $2\frac{1}{8}$ km and $2\frac{3}{8}$ km long. Arrange the routes in descending order.

10. Fill the missing numbers

i. $\frac{1}{7} + \frac{2}{7} = \frac{\square}{7}$

ii. $\frac{3}{13} + \frac{\square}{13} = \frac{8}{13}$

iii. $\frac{\square}{9} + \frac{4}{9} = \frac{7}{9}$

iv. $\frac{7}{11} - \frac{2}{11} = \frac{5}{\square}$

v. $\frac{13}{23} - \frac{4}{23} =$

C.Find the solutions to these short-answer type questions:

1. 12 out of 50 balls are black. What fraction of balls are not black?
2. Write natural numbers from 90 to 100. What fraction of them are prime numbers?
3. A fruit vendor sold 5 apples out of a dozen apples. Find the fraction of unsold apples (out of the total number of apples).
4. In a class of 50 students, $\frac{2}{5}$ travel to school by car, 10 by bus and the rest walk. What is the fraction of students who walk to school?
5. Aaryav read 52 pages of a chapter and had 18 pages left. What fraction of the chapter did he read?
6. In a group of 45 children 20 are boys and the rest are girls. What fraction of the Children are girls?