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CH-3 Fraction

Ex. 3.1

Q1- Classify the following fractions.

(a) $\frac{1}{12}$ (b) $\frac{3}{7}$ (c) $\frac{5}{4}$ (d) $2\frac{1}{3}$ (e) $\frac{1}{3}$ (f) $\frac{9}{7}$ (g) $\frac{2}{5}$

Sol. Proper fractions - (a) $\frac{1}{12}$ (b) $\frac{3}{7}$ (e) $\frac{1}{3}$ (g) $\frac{2}{5}$

Improper fractions - (c) $\frac{5}{4}$ (f) $\frac{9}{7}$

Mixed fractions (d) $2\frac{1}{3}$

Q2. Identify like and unlike fractions.

(a) $\frac{9}{4}, \frac{9}{7}$ (b) $\frac{3}{5}, \frac{1}{5}$

Ans. unlike fractions Ans. like fractions.

(c) $\frac{2}{3}, \frac{3}{4}$ (d) $\frac{1}{2}, \frac{2}{4}$

Ans. unlike fractions Ans. unlike fractions

Q3. Write a proper fraction.

(a) Whose numerator is 7 and denominator is 11.

Ans. $\frac{7}{11}$

(b) Whose numerator and denominator add upto 3.

Ans. $\frac{1}{2}$

Q4- Write an improper fraction.

(a) Whose numerator is 3 more than the denominator.

Ans: $\frac{5}{2}$

(b) Whose numerator and denominator differ by 2.

Ans: $\frac{5}{3}$

Q5- Convert the following into mixed fractions:

(a) $\frac{31}{9} = 3\frac{4}{9}$ $9 \overline{)31} \begin{matrix} 3 \\ 27 \\ \hline 04 \end{matrix}$ (b) $\frac{27}{4} = 6\frac{3}{4}$ $4 \overline{)27} \begin{matrix} 6 \\ 24 \\ \hline 3 \end{matrix}$

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(c) $\frac{18}{4} = 4\frac{2}{4} = 2\frac{1}{2}$ $4 \overline{)18} \begin{matrix} 4 \\ 16 \\ \hline 2 \end{matrix}$ (d) $\frac{14}{3} = 4\frac{2}{3}$ $3 \overline{)14} \begin{matrix} 4 \\ 12 \\ \hline 02 \end{matrix}$

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(e) $\frac{9}{4} = 2\frac{1}{4}$ $4 \overline{)9} \begin{matrix} 2 \\ 8 \\ \hline 1 \end{matrix}$