Self Practice 7A

1. Fill in the blanks.
(a) All proper fractions are less than 1.
(b) A mixed number is composed of two parts, whole and
(c) The fractions whose numerator is 1 are called unit fractions.
(d) Fractions that name the same part of a whole are called equivalent fraction
(e) In unit fractions, the fraction with a highest denominator is smallerin a group of fractions.
2. Identify the type of fractions as proper, improper, mixed and unit fractions.
(a) $\frac{7}{32}=p$
(b) $\frac{23}{10}=I$
(c) $\frac{1}{9}=U$
(d) $\frac{82}{100}=P$
(e) $14 \frac{5}{12}=M$
3. Convert as directed:
(a) $4 \frac{3}{7}$ into improper fraction
(b) $2 \frac{1}{9}$ into improper fraction.
(c) $\frac{35}{8}$ into mixed number
(d) $\frac{133}{12}$ into mixed number

Solution 3:-
(a) $4 \frac{3}{7}$ into improper fraction

$$
\text { Improper fraction }=\text { Denominator } \times \text { Whole Number }+ \text { Numerator }
$$

Denominator

$$
\begin{aligned}
& =\frac{7 \times 4+3}{7} \\
& =\frac{28+3}{7}=\frac{31}{7}
\end{aligned}
$$

(d) $\frac{133}{12}$ into mixed number

$$
\begin{array}{rlr}
\text { Mixed Number } & =Q \frac{R}{D} & 11 \\
& =11 \frac{1}{12} & \frac{-12 \downarrow}{013} \\
& & \frac{-12}{01}
\end{array}
$$

In Q3.(b) and (c) are homework.
4. Write the equivalent fractions for the following.
(a) $\frac{3}{4} ;$ numerator $=18$
(b) $\frac{32}{56}$; denominator $=14$
(c) $\frac{5}{42}$; denominator $=84$
(d) $\frac{200}{400} ;$ numerator $=50$

Solution 4:-
(a) $\frac{3}{4}$; numerator $=18$

$$
\frac{3 \times 6}{4 \times 6}=\frac{18}{24}
$$

(b) $\frac{32}{56} ;$ denominator $=14$

$$
\frac{32 \div 4}{56 \div 4}=\frac{8}{14}
$$

(d) $\frac{200}{400}$; numerator $=50$

$$
\frac{200 \div 4}{400 \div 4}=\frac{50}{100}
$$

In Q4. (c) is homework.
5. Write 5 equivalent fractions for the following.
(a) $\frac{3}{7}$
(b) $\frac{12}{17}$
(c) $\frac{20}{55}$
(d) $\frac{72}{300}$

Solution 5:-
(a) $\frac{3}{7}$

$$
\begin{aligned}
& \frac{3 \times 2}{7 \times 2}=\frac{6}{14}, \frac{3 \times 3}{7 \times 3}=\frac{9}{21}, \frac{3 \times 4}{7 \times 4}=\frac{12}{28}, \frac{3 \times 5}{7 \times 5}=\frac{15}{35} \\
& \frac{3 \times 6}{7 \times 6}=\frac{18}{42}
\end{aligned}
$$

$\therefore$ The equivalent fractions of $\frac{3}{7}$ are $\frac{6}{14}, \frac{9}{21}, \frac{12}{28}$,

$$
\frac{15}{35} \text { and } \frac{18}{42}
$$

$$
\text { (d) } \frac{72}{300}
$$

$$
\frac{72 \times 2}{300 \times 2}=\frac{144}{600}, \frac{72 \times 3}{300 \times 3}=\frac{216}{900}, \frac{72 \times 4}{300 \times 4}=\frac{288}{1200}, \frac{72 \times 5}{300 \times 5}=\frac{360}{1500}
$$

$$
72 \times 6=432
$$

$$
300 \times 6 \quad 1800
$$

$\therefore$ The equivalent fractions of $\frac{72}{300}$ are $\frac{144}{600}, \frac{216}{900}, \frac{288}{1200}$
360,432
$1500 \quad 1800$

## In Q5. (b) and (c) are homework.

Q6, Q7 and Q8 are omitted.

