



## Exercise 5B

Q1.

**Answer :**

$$\frac{1}{2}, \frac{3}{5}, \frac{10}{11}$$

Q2

**Answer :**

A fraction whose numerator is greater than or equal to its denominator is called an improper fraction. Hence,  $\frac{3}{2}$ ,  $\frac{9}{4}$ ,  $\frac{8}{8}$ ,  $\frac{27}{16}$ ,  $\frac{19}{18}$  and  $\frac{26}{26}$  are improper fractions.

Q3

**Answer :**

Clearly,  $\frac{6}{5}$ ,  $\frac{7}{5}$ ,  $\frac{8}{5}$ ,  $\frac{9}{5}$ ,  $\frac{11}{5}$  and  $\frac{12}{5}$  are improper fractions, each with 5 as the denominator.

Q4

**Answer :**

Clearly,  $\frac{13}{2}$ ,  $\frac{13}{3}$ ,  $\frac{13}{4}$ ,  $\frac{13}{5}$ ,  $\frac{13}{6}$ ,  $\frac{13}{7}$  are improper fractions, each with 13 as the numerator.

Q5

**Answer :**

We have:

$$(i) 5\frac{5}{7} = \frac{(5 \times 7) + 5}{7} = \frac{40}{7}$$

$$(ii) 9\frac{3}{8} = \frac{(9 \times 8) + 3}{8} = \frac{75}{8}$$

$$(iii) 6\frac{3}{10} = \frac{(6 \times 10) + 3}{10} = \frac{63}{10}$$

$$(iv) 3\frac{5}{11} = \frac{(3 \times 11) + 5}{11} = \frac{38}{11}$$

$$(v) 10\frac{9}{14} = \frac{(10 \times 14) + 9}{14} = \frac{149}{14}$$

$$(vi) 12\frac{7}{15} = \frac{(12 \times 15) + 7}{15} = \frac{187}{15}$$

$$(vii) 8\frac{8}{13} = \frac{(8 \times 13) + 8}{13} = \frac{112}{13}$$

$$(viii) 51\frac{2}{3} = \frac{(51 \times 3) + 2}{3} = \frac{155}{3}$$

Q6

**Answer :**

(i) On dividing 17 by 5, we get:

Quotient = 3

Remainder = 2

$$\therefore \frac{17}{5} = 3 + \frac{2}{5} = 3\frac{2}{5}$$

(ii) On dividing 62 by 7, we get:

Quotient = 8

Remainder = 6

$$\therefore \frac{62}{7} = 8 + \frac{6}{7} = 8\frac{6}{7}$$

(iii) On dividing 101 by 8, we get:

Quotient = 12

Remainder = 5

$$\therefore \frac{101}{8} = 12 + \frac{5}{8} = 12\frac{5}{8}$$

(iv) On dividing 95 by 13, we get:

Quotient = 7

Remainder = 4

$$\therefore \frac{95}{13} = 7 + \frac{4}{13} = 7\frac{4}{13}$$

(v) On dividing 81 by 11, we get:

Quotient = 7

Remainder = 4

$$\therefore \frac{81}{11} = 7 + \frac{4}{11} = 7\frac{4}{11}$$

(vi) On dividing 87 by 16, we get:

Quotient = 5

Remainder = 7

$$\therefore \frac{87}{16} = 5 + \frac{7}{16} = 5\frac{7}{16}$$

(vii) On dividing 103 by 12, we get:

Quotient = 8

Remainder = 7

$$\therefore \frac{103}{12} = 8 + \frac{7}{12} = 8\frac{7}{12}$$

(viii) On dividing 117 by 20, we get:

Quotient = 5

Remainder = 17

$$\begin{array}{r} 117 \\ - 100 \\ \hline 17 \end{array}$$

**Q7**

**Answer :**

\*\*\*\*\* END \*\*\*\*\*