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:

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

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

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

(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

117 = 17

Q7

Answer :

********** END **********