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3. Express the following as improper fractions:

(a) $7\frac{3}{4}$

(b) $5\frac{6}{7}$

(c) $2\frac{5}{6}$

(d) $10\frac{3}{5}$

(e) $9\frac{3}{7}$

(f) $8\frac{4}{9}$

Solutions:

(a) $(7 \times 4 + 3) / 4 = 31 / 4$

∴ The improper form is 31 / 4

(b) $(5 \times 7 + 6) / 7 = 41 / 7$

∴ The improper form is 41 / 7

(c) $(2 \times 6 + 5) / 6 = 17 / 6$

∴ The improper form is 17 / 6

(d) $(10 \times 5 + 3) / 5 = 53 / 5$

∴ The improper form is 53 / 5

(e) $(9 \times 7 + 3) / 7 = 66 / 7$
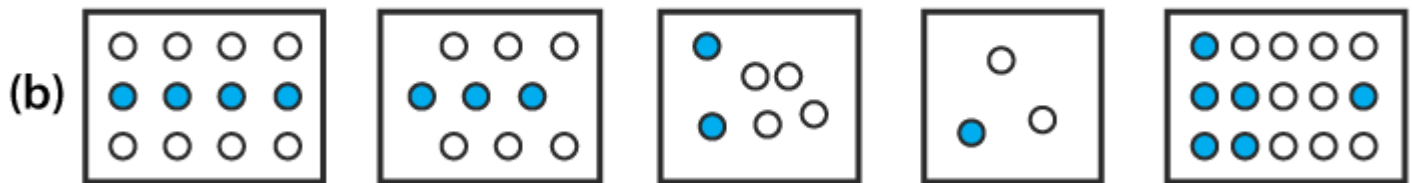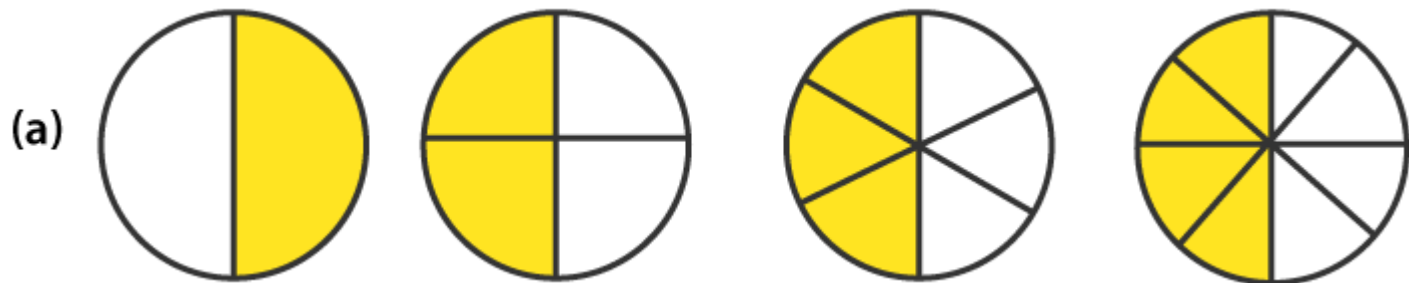
∴ The improper form is 66 / 7

(f) $(8 \times 9 + 4) / 9 = 76 / 9$

∴ The improper form is 76 / 9

Exercise 7.3 page no: 146

1. Write the fractions. Are all these fractions equivalent?

Solutions:

(a)

(i) The shaded portion is 1 / 2

(ii) The shaded portion is 2 / 4 = (2 / 2) / (4 / 2) = 1 / 2

(iii) The shaded portion is 3 / 6 = (3 / 3) / (6 / 3) = 1 / 2

(iv) The shaded portion is 4 / 8 = (4 / 4) / (8 / 4) = 1 / 2

Hence, all fractions are equivalent.

(b)

(i) The shaded portion is 4 / 12 = (4 / 4) / (12 / 4) = 1 / 3

(ii) The shaded portion is 3 / 9 = (3 / 3) / (9 / 3) = 1 / 3

(iii) The shaded portion is 2 / 6 = (2 / 2) / (6 / 2) = 1 / 3

(iv) The shaded portion is 1 / 3

(v) The shaded portion is 6 / 15 = (6 / 3) / (15 / 3) = 2 / 5

All the fractions in their simplest form are not equal

Hence, they are not equivalent fractions.

2. Write the fractions and pair up the equivalent fractions from each row.