Exercise 2D

Q1

Answer :

(c) $\frac{10}{3}$

$\frac{10}{3}$ is a vulgar fraction, because its denominator is other than 10, 100, 1000, etc.

Q2

Answer :

(c) $\frac{9}{7}$

$\frac{9}{7}$ is an improper fraction, because its numerator is greater than its denominator.

Q3

Answer :

(a) $\frac{105}{112}$

A fraction that is reducible can be reduced by dividing both the numerator and denominator by a common factor.

$\frac{105 \div 7}{112 \div 7} = \frac{15}{16}$

Thus, $\frac{105}{112}$ is a reducible fraction.

Q4

Answer :

(c) equivalent fractions

Equivalent fractions are those which are the same but look different.

Thus, $\frac{2}{3}, \frac{4}{6} = \frac{2}{3}, \frac{6}{9} = \frac{2}{3}, \frac{8}{12} = \frac{2}{3}$ are equivalent fractions.

Q5

Answer :

(c) $\frac{9}{16} > \frac{13}{24}$

The two fraction are $\frac{9}{16}$ and $\frac{13}{24}$.

By cross multiplication, we have:

$9 \times 24 = 216$ and $13 \times 16 = 208$

However, $216 > 208$

$\therefore \frac{9}{16} > \frac{13}{24}$

Q6

Answer :

(d) none of these

Reciprocal of $1\frac{3}{4}$ = Reciprocal of $\frac{7}{4} = \frac{4}{7}$

Q7

Answer :

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

$\left(\frac{3}{10} + \frac{8}{15}\right) = \left(\frac{9+16}{30}\right)$ [∵ LCM of 10 and 15 = 30]

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