

24.8.21
Tuesday

Chapter-9

Fractions

Date _____
Page _____

Exercise - 9 (A)

3. Reduce the following fractions to their lowest term.

a) $\frac{68}{136}$

Solution:

$$\frac{\cancel{68}^{34}}{\cancel{136}_{68}} = \frac{\cancel{34}^{17}}{\cancel{68}_{34}} = \frac{\cancel{17}^1}{\cancel{34}_2} = \frac{1}{2}$$

$$\therefore \frac{68}{136} = \frac{1}{2}$$

b) $\frac{102}{119}$

Solution:

$$\frac{102 \div 17}{119 \div 17} = \frac{6}{7}$$

$$\therefore \frac{102}{119} = \frac{6}{7}$$

c) $\frac{153}{204}$

Solution :

$$\frac{\cancel{153}^{51}}{\cancel{204}_{68}} = \frac{\cancel{51}^3}{\cancel{68}_4} = \frac{3}{4}$$

$$\therefore \frac{153}{204} = \frac{3}{4}$$

d) $\frac{129}{243}$

Solution :

$$\frac{129 \div 3}{243 \div 3} = \frac{43}{81}$$

$$\therefore \frac{129}{243} = \frac{43}{81}$$

e) $\frac{154}{238}$

Solution :

$$\frac{154}{238} = \frac{\cancel{11} \times 14}{\cancel{11} \times 17} = \frac{11}{17}$$

$$\therefore \frac{154}{238} = \frac{11}{17}$$

f) $\frac{198}{297}$

Solution :-

$$\frac{198 \div 9 = 22 \div 11 = 2}{297 \div 9 = 33 \div 11 = 3}$$

$$\therefore \frac{198}{297} = \frac{2}{3}$$

$$g) \frac{117}{189}$$

Solution:

$$\frac{117 \div 9 = 13}{189 \div 9 = 21}$$

$$\therefore \frac{117}{189} = \frac{13}{21}$$

$$h) \frac{304}{368}$$

Solution:

$$\frac{304 \div 4 = 76 \div 4 = 19}{368 \div 4 = 92 \div 4 = 23}$$

$$\therefore \frac{304}{368} = \frac{19}{23}$$

Exercise - 9 (A)

3. Reduce the following fractions to their lowest form :-

i) $\frac{115}{345}$

Solution:

$$\frac{115 \div 5 = 23 \div 23 = 1}{345 \div 5 = 69 \div 23 = 3}$$

$$\therefore \frac{115}{345} = \frac{1}{3}$$

j) $\frac{160}{720}$

Solution:

$$\frac{160 \div 2 = 80 \div 2 = 40 \div 2 = 20 \div 2 = 10 \div 5 = 2}{720 \div 2 = 360 \div 2 = 180 \div 2 = 90 \div 2 = 45 \div 5 = 9}$$

$$\therefore \frac{160}{720} = \frac{2}{9}$$

4. Tick (✓) the fractions which are proper fractions.

a) $\frac{13}{16}$

i) $\frac{45}{9}$

b) $\frac{8}{7}$

j) $\frac{63}{65}$

c) $\frac{\square}{8}$

d) $\frac{23}{25}$

e) $\frac{38}{4}$

f) $\frac{48}{50}$

g) $\frac{25}{21}$

h) $\frac{1}{7}$