

**Subject: MATHS**

**14.07.2020**

**Class 5**

**Lesson : Multiplication of Fractions**

**Dear students,**

**Today you are going to learn multiplication of Fractions this is very easy and interesting chapter. See and understand the examples and note down in copy and then solve the given questions.**

## Multiplication of Fractions

Formula:-

$$\text{Fraction} \times \text{Whole Number} = \frac{\text{Numerator of fraction}}{\text{Denominator of fraction}} \times$$

Whole Number

Ex-  $\frac{35}{7} \times 4 \Rightarrow \frac{25}{7} \times 4$

$$\Rightarrow \frac{25 \times 4}{7} = \frac{100}{7} = 14 \frac{2}{7}$$

Note:  $\rightarrow$  Every whole number can be written as a fraction with denominator 1.

Ex-  $\frac{2}{5} \times 5$

$$\Rightarrow \frac{2}{5} \times \frac{5}{1}$$

$$= \frac{2}{1} = 2 \text{ Ans}$$

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Solution: (i) Convert the mix number in an improper function.

(ii) Multiply the numerator by whole number.

(iii) Reduce the fraction.

Ex-  $\frac{6}{9} \times 24$

$$= \frac{15}{9} \times 24$$

$$\Rightarrow \frac{15 \times 24}{9}$$

$$\Rightarrow 40 \text{ Ans}$$

Note

(a)  $\frac{4}{7} \times 0 = 0$

(b)  $\frac{4}{7} \times 1 = \frac{4}{7}$

$\rightarrow$  Fraction  $\times 1 =$  Fraction itself

$\rightarrow$  Fraction  $\times 0 = 0$

We can write  $\frac{40}{1}$  but 40 is

Ans

Ex- multiply  $\frac{1}{3}$  and  $\frac{1}{4}$

$$\Rightarrow \frac{1}{3} \times \frac{1}{4}$$

$$= \frac{1 \times 1}{3 \times 4} = \frac{1}{12} \text{ Ans}$$

1. multiply the following:-

(a)  $\frac{2}{3} \times 5$

(b)  $\frac{3}{4} \times 8$

(c)  $\frac{5}{6} \times 7$

(d)  $\frac{1}{3} \times 9$

(e)  $\frac{7}{12} \times 28$

(f)  $2\frac{3}{8} \times 4$

(g)  $3\frac{5}{14} \times 21$

(h)  $\frac{2}{3} \times \frac{5}{7}$

(i)  $\frac{5}{6} \times \frac{3}{8}$

(j)  $\frac{3}{16} \times \frac{4}{5}$

(k)  $\frac{3}{14} \times \frac{7}{10}$

(l)  $\frac{7}{9} \times \frac{6}{35}$

(m)  $\frac{10}{11} \times \frac{1}{15}$

(n)  $\frac{5}{7} \times \frac{11}{15}$

(o)  $\frac{4}{7} \times \frac{5}{8}$

(p)  $\frac{7}{22} \times \frac{33}{35}$

(q)  $6\frac{3}{7} \times 1\frac{2}{5}$

(r)  $15\frac{2}{15} \times 3\frac{2}{11}$

(s)  $4\frac{3}{4} \times 1\frac{5}{19}$

(t)  $\frac{3}{8} \times \frac{4}{9} \times \frac{2}{5}$

(u)  $\frac{3}{10} \times \frac{5}{6} \times \frac{9}{10}$

(v)  $\frac{1}{9} \times \frac{3}{5} \times \frac{3}{4}$

(w)  $\frac{6}{7} \times \frac{14}{25} \times \frac{5}{8}$

(x)  $\frac{5}{16} \times \frac{12}{13} \times \frac{26}{35}$

(y)  $\frac{7}{11} \times \frac{8}{9} \times \frac{27}{28}$

(z)  $\frac{4}{5} \times \frac{3}{16} \times \frac{11}{22}$

Teacher's Signature:

Rohit  
14/1/20

Subject Tr. Rohit Kumar

