



Copy and multiply.

1. (a)  $\frac{6}{10} \times \frac{5}{12}$

(b)  $\frac{2}{3} \times \frac{18}{20}$

(c)  $\frac{3}{8} \times \frac{12}{27}$

(d)  $\frac{5}{18} \times \frac{54}{45}$

Solution 1:-

$$(a) \frac{6}{10} \times \frac{5}{12}$$

$$= \frac{\overset{1}{\cancel{6}}}{\underset{2}{\cancel{10}}} \times \frac{\overset{1}{\cancel{5}}}{\underset{2}{\cancel{12}}}$$

$$= \frac{1 \times 1}{2 \times 2}$$

$$= \frac{1}{4}$$

$$(b) \frac{2}{3} \times \frac{18}{20}$$

$$= \frac{\overset{1}{\cancel{2}}}{\underset{3}{\cancel{3}}} \times \frac{\overset{6}{\cancel{18}}}{\underset{2}{\cancel{20}} \times 5}$$

$$= \frac{1 \times 3}{1 \times 5}$$

$$= \frac{3}{5}$$

$$(d) \frac{5}{18} \times \frac{54}{45}$$

$$= \frac{\overset{1}{\cancel{5}}}{\underset{18}{\cancel{18}}} \times \frac{\overset{3}{\cancel{54}}}{\underset{3}{\cancel{45}} \times 3}$$

$$= \frac{1 \times 1}{1 \times 3} = \frac{1}{3}$$

In Q1. (c) is homework

$$2. (a) \frac{4}{10} \times \frac{2}{6} \times \frac{25}{16}$$

$$(b) \frac{7}{11} \times \frac{33}{49} \times \frac{14}{44}$$

$$(c) \frac{42}{15} \times \frac{3}{7} \times \frac{5}{36}$$

**Solution 2:-**

$$(a) \frac{4}{10} \times \frac{2}{6} \times \frac{25}{16}$$

$$= \frac{\overset{1}{\cancel{4}}}{\underset{2}{\cancel{10}}} \times \frac{\overset{1}{\cancel{2}}}{6} \times \frac{\overset{5}{\cancel{25}}}{\underset{2}{\cancel{16}8}}$$

$$= \frac{1 \times 1 \times 5}{2 \times 6 \times 2}$$

$$= \frac{5}{24}$$

$$(b) \frac{7}{11} \times \frac{33}{49} \times \frac{14}{44}$$

$$= \frac{\overset{1}{\cancel{7}}}{\underset{1}{\cancel{11}}} \times \frac{\overset{3}{\cancel{33}}}{\underset{7}{\cancel{49}}} \times \frac{\overset{2}{\cancel{14}}}{\underset{22}{\cancel{44}}}$$

$$= \frac{1 \times 3 \times 1}{1 \times 1 \times 22}$$

$$= \frac{3}{22}$$

**In Q2. (c) is homework**

3. (a)  $1\frac{7}{8} \times 3\frac{1}{5}$

(b)  $9\frac{1}{11} \times 10\frac{1}{12}$

(c)  $2\frac{3}{5} \times 1\frac{1}{4}$

(d)  $2\frac{1}{7} \times 3\frac{1}{2}$

(e)  $3\frac{11}{15} \times 1\frac{42}{63}$

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

(g)  $4\frac{3}{4} \times 1\frac{7}{57}$

(h)  $12\frac{1}{2} \times 3\frac{1}{5}$

**Solution 3:-**

(a)  $1\frac{7}{8} \times 3\frac{1}{5}$   
 $= \frac{15}{8} \times \frac{16}{5}$   
 $= \frac{3 \times 2}{1 \times 1}$   
 $= \frac{6}{1} = \underline{\underline{6}}$

(b)  $9\frac{1}{11} \times 10\frac{1}{12}$   
 $= \frac{100}{11} \times \frac{121}{12}$   
 $= \frac{25 \times 11}{1 \times 3}$   
 $= \frac{275}{3} = 91\frac{2}{3}$

(e)  $3\frac{11}{15} \times 1\frac{42}{63}$   
 $= \frac{56}{15} \times \frac{105}{63}$   
 $= \frac{56 \times 1}{1 \times 9}$   
 $= \frac{56}{9}$   
 $= 6\frac{2}{9}$

(h)  $12\frac{1}{2} \times 3\frac{1}{5}$   
 $= \frac{25}{2} \times \frac{16}{5}$   
 $= \frac{5 \times 8}{1 \times 1}$   
 $= \frac{40}{1}$   
 $= \underline{\underline{40}}$

In Q3. (c), (d), (f) and (g) are homework

**Q4 is omitted**



Find the product and write in the simplest form.

1.  $18 \times \frac{5}{6}$

2.  $3 \times \frac{1}{3}$

3.  $3 \times \frac{2}{5}$

4.  $10 \times 1\frac{5}{8}$

5.  $10 \times 1\frac{2}{15}$

6.  $34 \times \frac{10}{68}$

7.  $44 \times \frac{13}{220}$

8.  $75 \times \frac{19}{100}$

9.  $12 \times \frac{7}{20}$

10.  $18 \times \frac{4}{33}$

11.  $60 \times \frac{11}{105}$

12.  $220 \times \frac{15}{66}$

**Solutions:-**

1)  $18 \times \frac{5}{6}$

$= \frac{\overset{3}{\cancel{18}} \times 5}{1 \times \underset{2}{\cancel{6}}}$

$= \frac{3 \times 5}{1 \times 1}$

$= \frac{15}{1} = \underline{\underline{15}}$

4)  $10 \times 1\frac{5}{8}$

$= \frac{\overset{5}{\cancel{10}} \times 13}{1 \times \underset{2}{\cancel{8}}}$

$= \frac{5 \times 13}{1 \times 4}$

$= \frac{65}{4} = 16\frac{1}{4}$

5)  $10 \times 1\frac{2}{15}$

$= \frac{\overset{2}{\cancel{10}} \times 17}{1 \times \underset{3}{\cancel{15}}}$

$= \frac{2 \times 17}{1 \times 3}$

$= \frac{34}{3} = \underline{\underline{11\frac{1}{3}}}$

7)  $44 \times \frac{13}{220}$

$= \frac{\overset{2}{\cancel{44}} \times 13}{1 \times \underset{5}{\cancel{220}}}$

$= \frac{2 \times 13}{1 \times 5} = \frac{1 \times 13}{1 \times 5}$

$= \frac{13}{5} = \underline{\underline{2\frac{3}{5}}}$

$$10) \quad 18 \times \frac{4}{33}$$

$$= \frac{\overset{6}{\cancel{18}}}{1} \times \frac{4}{\cancel{33}_{11}}$$

$$= \frac{6 \times 4}{1 \times 11}$$

$$= \frac{24}{11}$$

$$= \underline{\underline{2 \frac{2}{11}}}$$

$$12) \quad 220 \times \frac{15}{66}$$

$$= \frac{\overset{10}{\cancel{220}}}{1} \times \frac{15}{\cancel{66}_{33} \cancel{2}}$$

$$= \frac{10 \times 5}{1 \times 1}$$

$$= \frac{50}{1}$$

$$= \underline{\underline{50}}$$

**In this exercise Q2 , Q3 , Q6 , Q8 , Q9 ,  
Q11 are homework.**