

I. Answer the following:

1.  $\frac{4}{5}$       2. 64      3. Number line      4.  $5a \times 6b \times 3c = 90abc$

II. Answer the following:

5. Consider LHS

$$\begin{aligned} (-x) &= -\left(-\frac{11}{25}\right) \\ &= \frac{11}{25} = x \quad \text{RHS} \end{aligned}$$

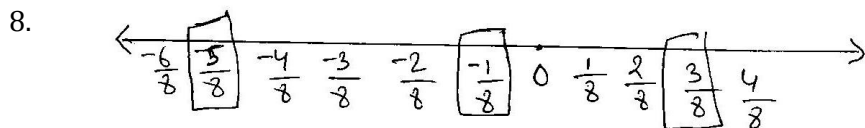
Hence verified  $\therefore$  LHS = RHS

6. 
$$\frac{-9}{32}x^2y^3 \times \frac{-8}{18}x^3y^2$$

$$\frac{-9}{32} \times \frac{-8}{18} x^2y^3 \times x^3y^2$$

$$\frac{1}{8}x^5y^5$$

7. Student Answer



III. Answer the following:

9. Volume of Rectangular box =  $l b h$

Here  $l = 3x^2$   $b = 7xy^2$   $h = 8x^3y^3$

$\rightarrow 3x^2 \times 7xy^2 \times 8x^3y^3$

$\rightarrow 68x^6y^5$

10. a) Reciprocal of  $\frac{121}{9} = \frac{9}{121}$

Multiply  $\frac{11}{63} \times \frac{9}{121} = \frac{1}{77}$

b)  $7.69 \times 10^{-7}$

11.  $[5^{-1} + 7^0] \times 5^3$   
 $[5^{-1} + 7^0] \times 125$

$$\begin{aligned} &\left[\frac{1}{5} + 1\right] \times 125 \\ &\left[\frac{1+5}{5}\right] \times 125 \\ &\frac{6}{5} \times 125 = 150 \end{aligned}$$

Hence Ans is 150

12.  $(b - c), b(c - a) \text{ \& } c(a - b)$   
 $ab - ac + bc - ba + ca - bc = 0$

IV. Answer the following:

13.  $\frac{3}{8} \text{ \& } \frac{2}{5}$

LCM = 40

$\frac{3}{8} \times \frac{5}{5} = \frac{15}{40}$

$\frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$

Next common multiple

$\frac{3}{8} \times \frac{10}{10} = \frac{30}{80}$

$\frac{2}{5} \times \frac{16}{16} = \frac{32}{80}$

Only two R. No's existing

So, Next common multiple

$\frac{3}{8} \times \frac{120}{120} = \frac{120}{320}$

$\frac{2}{5} \times \frac{64}{64} = \frac{128}{320}$

(or) Student corner

14.  $9(p^2 + 2p + 5)$   
 $= 9p^2 + 18p + 45$   
 $= 9(2)^2 + 18(2) + 45$   
 $= 9(4) + 36 + 45$   
 $= 36 + 36 + 45$   
 $= 72 + 45$   
 $= 117$

$$15. a) 367300000 = 367300$$

$$b) = \left(-\frac{6}{5} \times \frac{12}{8}\right) \times \frac{14}{24}$$

$$\frac{\cancel{110}^2}{\cancel{45}_{15}} \times \frac{\cancel{96}^{32}}{\cancel{55}} = \frac{\cancel{96}^{32}}{\cancel{55}} \times \frac{\cancel{110}^2}{\cancel{45}_{15}}$$

Hence LHS = RHS

$\therefore$  Verified Commutative property

$$16. \text{ Rough diagram} = 1$$

$$\text{Fair diagram} = 2$$

$$\text{Construction Steps} = 1$$