

C.W  
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Date  
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## Exercise 9 (D)

1 > Divide :

a >  $\frac{35}{44} \div 70$

Ans >  $\frac{35}{44} \times \frac{1}{\cancel{70}_2} = \frac{1}{88}$

b >  $\frac{12}{13} \div 15$

Ans >  $\frac{12}{13} \times \frac{1}{15} = \frac{12}{195}$

c >  $\frac{8}{13} \div \frac{2}{13}$

Ans >  $\frac{\cancel{8}^4}{\cancel{13}_1} \times \frac{\cancel{13}^1}{\cancel{2}_1} = \frac{4}{1} = 4$

d >  $\frac{5}{12} \div \frac{10}{21}$

Ans >  $\frac{\cancel{5}^1}{\cancel{12}_4} \times \frac{\cancel{21}^3}{\cancel{10}_2} = \frac{7}{8}$

e)  $\frac{22}{25} \div \frac{11}{15}$  Ans  $> \frac{22}{25} \times \frac{15^3}{11} = \frac{6}{5} = 1\frac{1}{5}$

~~Ans  $> = \frac{22}{25} \times \frac{5^1}{11} = \frac{2}{5}$~~

f)  $\frac{26}{27} \div \frac{13}{15}$

Ans  $> = \frac{26}{27} \times \frac{15}{13} = \frac{30}{27} = 1\frac{3}{27} = 1\frac{1}{9}$

g)  $45 \div \frac{3}{8}$

Ans  $> = \frac{45^{15}}{1} \times \frac{8}{3} = \frac{120}{1} = 120$

h)  $91 \div \frac{26}{27}$

Ans  $> = \frac{91}{1} \times \frac{27}{26} = \frac{2457}{26} = 94\frac{1}{2}$

i)  $2\frac{4}{15} \div 2\frac{1}{27}$

Ans  $\rightarrow \frac{184}{15} \times \frac{27}{55} = \frac{1656}{275} = 6\frac{6}{275}$

j)  $\frac{3}{4} \div \frac{1}{2} \div \frac{6}{7}$

Ans  $\rightarrow \frac{3}{4} \times \frac{2}{1} \times \frac{7}{6} = \frac{7}{4} = 1\frac{3}{4}$

k)  $2\frac{1}{4} \div 1\frac{3}{10} \div \frac{3}{13}$

Ans  $\rightarrow \frac{9}{2} \times \frac{10}{13} \times \frac{13}{3} = 7\frac{1}{2}$

l)  $4\frac{2}{3} \div 1\frac{1}{2} \div 1\frac{2}{3}$

Ans  $\rightarrow \frac{14}{3} \times \frac{2}{3} \times \frac{3}{5} = \frac{28}{15} = 1\frac{13}{15}$

Q2 Find the quotient in its simplest form.

a  $\frac{3}{5} \div \frac{7}{10}$      Ans =  $\frac{3}{5} \times \frac{10^2}{7}$      =  $\frac{6}{7}$

~~Q~~  
b  $\frac{5}{16} \div \frac{9}{14}$      Ans =  $\frac{5}{16} \times \frac{14^7}{9}$      =  $\frac{35}{72}$

c  $\frac{8}{15} \div \frac{35}{36}$      =  $\frac{8}{15} \div \frac{35}{36}$      =  $\frac{8}{15} \times \frac{36^{12}}{35}$      =  $\frac{96}{17.5}$  (Ans)

d  $\frac{12}{17} \div \frac{5}{1}$      =  $\frac{12}{17} \div \frac{5}{1}$      =  $\frac{12}{17} \times \frac{1}{5}$      =  $\frac{12}{85}$  (Ans)

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$$e) \frac{\frac{8}{5}}{7} = \frac{8}{5} \div \frac{7}{1} = \frac{8}{5} \times \frac{1}{7} = \frac{8}{35} = \frac{4}{21} \text{ (Ans)}$$

$$f) \frac{\frac{2}{19}}{4} = \frac{2}{19} \div \frac{4}{1} = \frac{2}{19} \times \frac{1}{4} = \frac{1}{38} \text{ (Ans)}$$

$$g) \frac{\frac{7}{9}}{28} = \frac{7}{9} \div \frac{28}{1} = \frac{7}{9} \times \frac{1}{28} = \frac{1}{36} \text{ (Ans)}$$

$$h) \frac{\frac{5}{3}}{\frac{10}{1}} = \frac{5}{3} \div \frac{10}{1} = \frac{5}{3} \times \frac{1}{10} = \frac{1}{6} \text{ (Ans)}$$

$$i) \frac{\frac{20}{7}}{15} = \frac{20}{7} \div \frac{15}{1} = \frac{20}{7} \times \frac{1}{15} = \frac{20}{105} = \frac{4}{21} = 4\frac{6}{7} \text{ (Ans)}$$

$$j) \frac{\frac{10}{\frac{1}{2}}}{\frac{3}{1}} = \frac{10}{1} \div \frac{5}{3} = \frac{10}{1} \times \frac{3}{5} = 6 = 6 \text{ (Ans)}$$

(Ans)

$$\begin{aligned}
 k > \frac{24}{3\frac{1}{3}} &= \frac{24}{1} \div \frac{10}{3} = \frac{24}{1} \times \frac{3}{10} = \frac{36}{5} \\
 &= 7\frac{1}{5} \text{ (Ans)}
 \end{aligned}$$

$$\begin{aligned}
 l > \frac{3\frac{3}{4}}{1\frac{1}{2}} &= \frac{15}{4} \div \frac{3}{2} = \frac{15}{4} \times \frac{2}{3} = \frac{5}{2} = 2\frac{1}{2} \\
 &\text{(Ans)}
 \end{aligned}$$