

CW
8.9.21

Exercise - 9(D)



1) Divide

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

$$\text{Ans: } \frac{35}{44} \div 70 = \frac{\overset{1}{35} \times 1}{44 \div 70} = \frac{1}{88}$$

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

$$\text{Ans: } \frac{12}{13} \div 15 = \frac{\overset{1}{12} \times 1}{13 \div 15} = \frac{4}{65}$$

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

$$\text{Ans: } \frac{8}{13} \div \frac{2}{13} = \frac{\overset{4}{8} \times \overset{1}{13}}{\overset{1}{13} \times \overset{2}{2}} = \frac{4}{1} = 4$$

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

$$\text{Ans: } \frac{5}{12} \div \frac{10}{21} = \frac{\overset{1}{5} \times \overset{7}{21}}{\overset{4}{12} \times \overset{2}{10}} = \frac{7}{8}$$

e. $\frac{22}{25} \div \frac{11}{15}$

Ans: $\frac{22}{25} \div \frac{11}{15} = \frac{22 \times 15^1}{25 \times 11^1} = \frac{6}{5} = 1\frac{1}{5}$

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

Ans: $\frac{26}{27} \times \frac{15^1}{13^1} = \frac{10}{9} = 1\frac{1}{9}$

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

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

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

Ans: $\frac{91^1}{1} \times \frac{27}{26} = \frac{189}{2} = 94\frac{1}{2}$

$$i \quad 12 \frac{4}{15} \div 2 \frac{1}{27}$$

$$A: \frac{184}{15} \times \frac{27}{55} = \frac{1656}{275} = 6 \frac{6}{275}$$

$$j \quad \frac{3}{4} \cdot \frac{1}{2} \cdot \frac{6}{7}$$

$$A: \frac{\cancel{3}}{4} \times \frac{\cancel{1}}{1} \times \frac{7}{\cancel{7}} = \frac{7}{4} = 1 \frac{3}{4}$$

$$k. \quad 2 \frac{1}{4} \div 1 \frac{3}{10} = \frac{9}{4} \div \frac{13}{10}$$

$$A: \frac{\cancel{3}}{2} \times \frac{\cancel{6}}{\cancel{12}} \times \frac{\cancel{10}}{\cancel{8}} = \frac{15}{2} = 7 \frac{1}{2}$$

$$L \quad 4 \frac{2}{3} \div 1 \frac{1}{2} \div 1 \frac{2}{3}$$

$$A: \frac{14}{3} \times \frac{2}{8} \times \frac{3}{5} = \frac{28}{15} = 1 \frac{8}{15}$$

2) Find the quotient in the simplest form

a. $\frac{3}{5} \div \frac{7}{10}$

Ans: $\frac{3}{5} \times \frac{10}{7} = \frac{6}{7}$

b. $\frac{5}{16} \div \frac{9}{14}$

Ans: $\frac{5}{16} \times \frac{14}{9} = \frac{35}{72}$

c. $\frac{8}{15} \div \frac{35}{36}$

Ans: $\frac{8}{15} \times \frac{36}{35} = \frac{96}{175}$

$$d. \frac{12}{17} \\ \frac{5}{5}$$

$$\text{Ans: } \frac{12}{17} \times \frac{1}{5} = \frac{12}{85}$$

$$c. \frac{8}{6} \\ \frac{7}{7}$$

$$\text{Ans: } \frac{8^4}{8^3} \times \frac{1}{7} = \frac{4}{21}$$

$$+. \frac{2}{19} \\ \frac{4}{4}$$

$$\text{Ans: } \frac{2}{19} \times \frac{1}{2} = \frac{1}{38}$$

$$g. \frac{7}{9} \\ \frac{28}{28}$$

$$A. \frac{8}{9} \times \frac{1}{26} = \frac{1}{36}$$

$$h. \frac{5}{3} \\ 10$$

$$A. \frac{5}{3} \times \frac{1}{10} = \frac{1}{6}$$

$$i. \frac{20}{7} \\ 15$$

$$A. \frac{20}{1} \times \frac{15}{7} = \frac{300}{7}$$

$$j. \frac{10}{1} \\ 2 \\ 3$$

$$A. \frac{10^2}{1} \times \frac{3}{5} = \frac{6}{1} = 6$$

K. 24

$$3 \frac{1}{3}$$

Ans: $\frac{24}{1} \times \frac{3}{5} = \frac{36}{5} = 7 \frac{1}{5}$

L. $3 \frac{3}{4}$

$$1 \frac{1}{2}$$

Ans: $\frac{5}{2} \times \frac{2}{3} = \frac{5}{3} = 1 \frac{2}{3}$