

Exercise - 9(D)

1. Divide:

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

$$= \frac{22^2}{25^2} \times \frac{15^3}{11} = \frac{6}{5} = 1\frac{1}{5}$$

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

$$= \frac{26^2}{27^2} \times \frac{15^5}{13} = \frac{10}{9} = 1\frac{1}{9}$$

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

$$= \frac{45^2}{1} \times \frac{8}{3} = \frac{120}{1} = 120$$

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

$$= \frac{91^7}{1} \times \frac{27}{26} = \frac{161}{2} = 80\frac{1}{2}$$

$$\begin{aligned}
 i. \quad 2 \frac{4}{15} &\div 2 \frac{1}{27} \\
 &= \frac{184}{15} \div \frac{55}{27} \\
 &= \frac{184}{15} \times \frac{27}{55} = \frac{1656}{275} = 6 \frac{6}{275}
 \end{aligned}$$

$$\begin{aligned}
 j. \quad 4 \frac{2}{3} &\div 1 \frac{1}{2} \div 1 \frac{2}{3} \\
 &= \frac{14}{3} \div \frac{3}{2} \div \frac{5}{3} \\
 &= \frac{14}{3} \times \frac{2}{3} \times \frac{3}{5} = \frac{8}{15}
 \end{aligned}$$

2. Find the quotient in its simplest form:

$$\begin{aligned}
 c. \quad \frac{8}{15} \\
 \frac{35}{36} \\
 = \frac{8}{15} \times \frac{36}{35} = \frac{96}{175}
 \end{aligned}$$

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

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

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

$$= \frac{8}{3} \times \frac{1}{7} = \frac{8}{21}$$

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

$$= \frac{2}{19} \times \frac{1}{4} = \frac{1}{38}$$

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

$$= \frac{7}{9} \times \frac{1}{28} = \frac{1}{36}$$

$$b. \frac{5}{3}$$

$$\frac{10}{10}$$

$$= \frac{5^1}{3} \times \frac{1}{1} = \frac{1}{6}$$

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

$$\frac{20}{7}$$

$$= \frac{20}{1} \times \frac{15}{7} = \frac{300}{17} = 42 \frac{6}{7}$$

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

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

$$= \frac{10}{1} \div \frac{5}{3}$$

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

$$k. \frac{24}{3}$$

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

$$= \frac{24}{1} \div \frac{10}{3}$$

$$= \frac{24}{1} \times \frac{3}{10} = \frac{72}{10} = \frac{36}{5} = 6 \frac{6}{5}$$

1. $3 \frac{3}{4}$

$1 \frac{1}{2}$

$$= \frac{15}{4} \div \frac{3}{2}$$

$$= \frac{15}{4} \times \frac{2}{3} = \frac{5}{2} = 2 \frac{1}{2}$$