

Ex 9.1

V. Dimakle

$$(a) \begin{array}{r} 35 \\ 44 \\ \hline 79 \end{array}$$

$$\begin{array}{r} 18 \\ 35 \\ \hline 70 \end{array} \times \begin{array}{r} 74 \\ 74 \\ \hline 148 \end{array} = \begin{array}{r} 18 \\ 18 \\ \hline 36 \end{array} \times 2$$

$$= \begin{array}{r} 88 \\ \hline \end{array}$$

$$(b) \frac{12}{13} \div 15$$

$$= \frac{12}{13} \times \frac{1}{15} = \frac{4 \times 1}{13 \times 5}$$

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

(c)

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

$$= \frac{8}{13} \times \frac{2}{13} = \frac{4 \times 1}{13 \times 1}$$

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

$$(d) \frac{5}{10} \div \frac{12}{21}$$

$$= \frac{5}{10} \times \frac{21}{12} = \frac{21}{24} \times \frac{5}{10}$$

$$= \frac{1}{1} \times \frac{21}{2}$$

$$= \frac{21}{2}$$

(e)

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

$$= \frac{22}{25} \times \frac{15}{11}$$

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

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

(f)

$$\frac{26}{26} \div \frac{13}{13}$$

$$= \frac{26}{26} \times \frac{13}{13} = \frac{13}{5} \times \frac{2}{2}$$

$$= \frac{10}{9} = 1 \frac{1}{9}$$

$$= \frac{189}{2} \div \frac{1}{2} = \frac{189}{1} \times 2$$

$$= \frac{1}{9} \times \frac{27}{26} = \frac{1}{3} \times \frac{3}{26} = \frac{1}{26}$$

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

$$= 120 \div 120$$

$$= \frac{1}{45} \times \frac{8}{8} = \frac{1}{15} \times \frac{1}{8}$$

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

$$= \frac{165}{235} \div \frac{1}{6} = \frac{165}{235} \times 6$$

$$= \frac{5}{184} \times 55 = \frac{5}{184} \times 9$$

$$= \frac{184}{27} \times \frac{55}{9}$$

~~$$= \frac{184}{27} \times \frac{55}{9}$$~~

$$(i) 12 \frac{4}{5} \div 2 \frac{1}{2}$$

HW  
21/9/2024  
2. Divide

EX 9.1



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

$$= \frac{9 \times 10 \times 13}{3 \times 5 \times 7}$$

$$= \frac{4}{9} \div \frac{10}{13} \div \frac{13}{3}$$

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

$$= \frac{4}{7} = \frac{4}{3}$$

$$= \frac{2 \times 1 \times 7}{1 \times 1 \times 2}$$

$$= \frac{2 \times 2 \times 7}{2 \times 1 \times 7}$$

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

$$= \frac{15}{2} = 7\frac{1}{2}$$

$$(e) \frac{4}{2} \div 1\frac{1}{2} \div 1\frac{2}{3} \div 1\frac{2}{3}$$

$$= \frac{14}{3} \div \frac{3}{2} \div \frac{5}{3}$$

$$= \frac{19}{3} \times \frac{2}{3} \times \frac{3}{5}$$

$$= \frac{19 \times 2 \times 1 \times 3}{3 \times 1 \times 5}$$

$$= \frac{28}{15} = 1\frac{13}{15}$$



2. Find the quotient in its simplest form

a.

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

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

b.

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

$$= \frac{5}{16} \times \frac{9}{14}$$

$$= \frac{45}{224}$$

(c)

$$\frac{35}{72} \div \frac{7}{2}$$

$$= \frac{35}{72} \times \frac{2}{7}$$

$$= \frac{35}{36} \times \frac{1}{7}$$

$$= \frac{5}{36}$$

$$= \frac{1}{8} \times \frac{1}{35}$$

$$= \frac{1}{280}$$

$$= \frac{9 \times 1}{7 \times 3}$$

$$= \frac{3}{7}$$

$$(f) \frac{2}{\frac{19}{4}}$$

$$= \frac{2}{\frac{19}{4}} \div \frac{1}{4}$$

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

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

$$= \frac{38}{1}$$

$$= \frac{4}{8} \times \frac{8}{1}$$

$$= \frac{9}{8} \div \frac{1}{4}$$

$$(e) \frac{4}{\frac{9}{8}}$$

$$= \frac{85}{19}$$

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

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

$$= \frac{17}{12} \div \frac{1}{5}$$

$$(d) \frac{5}{\frac{17}{12}}$$

$$= \frac{7}{300} = \frac{7}{900} \times \frac{3}{3} = \frac{7}{900} \times \frac{1}{1} = \frac{7}{900}$$

$$= \frac{1 \times 7}{20 \times 15}$$

$$= \frac{1}{20} \times \frac{7}{15}$$

$$= \frac{1}{20} \div \frac{1}{15}$$

$$\frac{15}{7} \times \frac{1}{20}$$

(1)

$$= \frac{1}{6}$$

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

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

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

$$= \frac{10}{3} \times \frac{3}{5}$$

(4)

$$= \frac{36}{1}$$

$$= \frac{9 \times 4}{1 \times 1}$$

$$= \frac{9}{1} \times \frac{4}{28}$$

$$= \frac{9}{7} \div \frac{1}{28}$$

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

(3)

$$(k) \frac{24}{31}$$

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

$$= 6$$

$$= \frac{1}{6}$$

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

$$= \frac{1}{10} \times \frac{1}{3}$$

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

$$(j) \frac{10}{12}$$

(1)

$$= \frac{7}{15} \div \frac{2}{3}$$

$$= \frac{7}{15} \times \frac{3}{2}$$

$$= \frac{7}{10}$$

$$= \frac{1}{36} \div \frac{1}{5}$$

$$= \frac{1}{12} \times \frac{5}{3}$$

$$= \frac{5}{36}$$

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