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# Ex-9(D)

1) Divide:

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

$$= \frac{\cancel{35} \times 1}{44 \times \cancel{2}} = \frac{1}{88}$$

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

$$= \frac{\cancel{12} \times 1}{13 \times \cancel{5}} = \frac{4}{65}$$

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

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

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

$$= \frac{\overset{1}{\cancel{5}} \times \overset{7}{\cancel{21}}}{\underset{4}{\cancel{12}} \times \underset{2}{\cancel{10}}} = \frac{7}{8}$$

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

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

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

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

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

$$= \frac{15}{\cancel{15} \times 8} = \frac{120}{1} = 120$$

h)  $91 \div 26$

$$= \frac{\cancel{91} \times 27}{1 \times \cancel{26}_2} = \frac{189}{2} = 94 \frac{1}{2}$$

i)  $124 \div 21 = \frac{184}{15} \div \frac{55}{27}$

$$= \frac{184 \times \cancel{27}^9}{\cancel{15}_3 \times 55} = \frac{1656}{275} = 6 \frac{6}{275}$$

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

$$= \frac{\cancel{3} \times \cancel{2} \times 7}{\cancel{4}_2 \times 1 \times \cancel{6}_2} = \frac{7}{4} = 1 \frac{3}{4}$$

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

$$= \frac{\overset{3}{\cancel{2}} \times \overset{5}{\cancel{10}} \times 13}{\underset{2}{\cancel{4}} \times \cancel{13} \times \cancel{3}} = \frac{15}{2} = 7 \frac{1}{2}$$

$$l) \frac{4}{3} \div \frac{1}{2} \div \frac{2}{3} = \frac{14}{3} \div \frac{3}{2} \div 5$$

$$= \frac{14 \times 2 \times \cancel{3}^1}{\cancel{3}_1 \times 3 \times 5} = \frac{28}{15} = 1 \frac{13}{15}$$

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2. Find the quotient in its simplest form.

$$\text{a) } \frac{3}{5} \div \frac{7}{10}$$

$$= \frac{3}{\cancel{5}} \times \frac{10^2}{7} = \frac{6}{7}$$

$$\text{b) } \frac{5}{16} \div \frac{9}{14}$$

$$= \frac{5}{\cancel{8}} \times \frac{14^2}{9} = \frac{35}{72}$$

$$\text{c) } \frac{8}{15} \div \frac{35}{36}$$

$$= \frac{8}{\cancel{15} 3} \times \frac{36^{12}}{\cancel{35} 7} = \frac{96}{175}$$

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

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

$$e) \frac{8}{6} \div 7$$

$$= \frac{8}{6} \times \frac{1}{7} = \frac{8}{42} = \frac{4}{21}$$

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

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

$$g) \frac{7}{9} \div 28$$

$$= \frac{\cancel{1}^1}{9} \times \frac{1}{\cancel{28}_4} = \frac{1}{36}$$

$$h) \frac{\cancel{1}^1}{3} \times \frac{1}{\cancel{10}_2} = \frac{1}{6}$$

$$i) 20$$

$$h) \frac{5}{3} = \frac{10}{6}$$

$$= \frac{\cancel{5}^1}{3} \times \frac{1}{\cancel{10}_2} = \frac{1}{6}$$

$$i) \frac{20}{7} = \frac{40}{14}$$

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

$$j) \frac{10}{\frac{2}{3}} = 10 \div \frac{2}{3} = 10 \times \frac{3}{2} = 15$$

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

$$k) \frac{24}{3 \frac{1}{3}} = \frac{24}{1 \frac{1}{3}} = 10$$

$$= \frac{\cancel{24}^{12} \times 3}{1 \times \cancel{10}_5} = \frac{36}{5} = 7 \frac{1}{5}$$

$$l) \frac{3 \frac{3}{4}}{1 \frac{1}{2}} = \frac{15}{4} \div \frac{3}{2}$$

$$= \frac{\cancel{15}^5 \times \cancel{2}^1}{\cancel{4}_2 \times \cancel{3}_1} = \frac{5}{2} = 2 \frac{1}{2}$$