

Exercise 9 (D)

~~Ex~~ Divided Divide

$$(a) \frac{35}{44} \div 70 = \frac{35}{44} \times \frac{1}{70} = \frac{1}{44} \times \frac{1}{2} = \frac{1}{88}$$

$$(b) \frac{12}{13} \div 13 = \frac{12}{13} \times \frac{1}{13} = \frac{12}{169}$$

$$(c) \frac{8}{13} \div \frac{2}{13} = \frac{8}{13} \times \frac{13}{2} = 4$$

$$(d) \frac{5}{12} \div \frac{10}{21} = \frac{5}{12} \times \frac{21}{10} = \frac{7}{8}$$

$$(e) \frac{22}{25} \div \frac{11}{15} = \frac{22}{25} \times \frac{15}{11} = \frac{2 \times 3}{5 \times 1} = \frac{6}{5}$$

$$(f) \frac{26}{27} \div \frac{13}{15} = \frac{26}{27} \times \frac{15}{13} = \frac{2 \times 15}{27 \times 1} = \frac{30}{27} = \frac{10}{9}$$

$$(g) 45 \div \frac{3}{8} = \frac{45 \times 8}{1 \times 3} = \frac{360}{3} = 120$$

$$(h) \frac{91}{1} \div \frac{26}{27} = \frac{91^1}{1} \times \frac{27}{26} = \frac{7 \times 27}{1 \times 2} = \frac{189}{2} = 94 \frac{1}{2}$$

$$(i) 12 \frac{4}{5} \div 2 \frac{1}{27} = \frac{184}{5} \div \frac{55}{27} = \frac{184}{5} \times \frac{27}{55}$$

$$= \frac{184}{3} \times \frac{9}{55} = \frac{1656}{275} = 6 \frac{6}{275}$$

$$(j) \frac{3}{4} \div \frac{1}{2} \div \frac{8}{7} = \frac{3}{4} \times \frac{2}{1} \times \frac{7}{8} = \frac{1}{2} \times \frac{7}{1} \times \frac{7}{2}$$

$$= \frac{7}{4} = 1 \frac{3}{4}$$

$$(k) 2 \frac{1}{4} \div 1 \frac{3}{10} \div \frac{3}{13} = \frac{9}{2} \times \frac{10}{13} \times \frac{13}{3} = \frac{15}{2} = 7 \frac{1}{2}$$

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

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

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

$$(2)(a) \quad \frac{3}{5} \div \frac{7}{10} = \frac{3}{5} \times \frac{10}{7} = \frac{6}{7}$$

$$(b) \quad \frac{5}{16} \div \frac{9}{14} = \frac{5}{16} \times \frac{14}{9} = \frac{35}{72}$$

$$(c) \quad \frac{8}{15} \div \frac{35}{36} = \frac{8}{15} \times \frac{36}{35} = \frac{288}{525} = \frac{96}{175}$$

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

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

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

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

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

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

$$(i) \frac{20}{7} = \frac{20^4}{7} \times \frac{1}{15^3} = \frac{4}{21}$$

$$(j) \frac{10}{2} = \frac{10 \cdot 5}{1 \cdot 3} = \frac{10}{3} = \frac{10^2}{1} \times \frac{3}{5} = 6$$

$$(k) \frac{24}{1\frac{1}{3}} = \frac{24^2}{1} \times \frac{3}{10^5} = \frac{36}{5}$$

$$(l) 3\frac{3}{4} = \frac{15^3}{4} \times \frac{2^1}{5^1} = \frac{5}{2} \quad \frac{15^5}{4^2} \times \frac{2^1}{3^1} = \frac{5}{2}$$