

Divide:-

$$a \quad \frac{35}{44} \div 70 = \frac{35 \times 1}{44 \times 70} = \frac{1}{88}$$

$$b \quad \frac{12}{13} \div 15 = \frac{12 \times 1}{13 \times 15} = \frac{4}{65}$$

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

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

$$e \quad \frac{3}{4} \div \frac{1}{2} \div \frac{6}{7} = \frac{3 \times 2 \times 7}{4 \times 1 \times 6} = \frac{7}{4}$$

$$f \quad 2\frac{1}{4} \div \frac{3}{10} \div \frac{3}{13} = \frac{9 \times 10 \times 13}{4 \times 13 \times 8} = 7\frac{1}{2}$$

$$g \quad 4\frac{2}{3} \div 1\frac{1}{2} \div \frac{2}{3} = \frac{14}{3} \div \frac{3}{2} \div \frac{5}{3} = \frac{14 \times 2 \times 5}{3 \times 3 \times 3} = \frac{70}{9} = 7\frac{7}{9}$$

Homework

2a

$$\frac{3}{\frac{5}{7}} = \frac{3}{5} \div \frac{7}{10} = \frac{3}{5} \times \frac{10}{7} = \frac{3 \times 2}{5 \times 7}$$

b

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

c

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

$$\frac{96}{175}$$

d

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

e

$$\frac{8}{\frac{6}{7}} = \frac{8}{6} \div \frac{1}{7} = \frac{8}{6} \times \frac{7}{1} = \frac{8}{1}$$

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

$$g \quad \frac{7}{9} = \frac{7 \div 28}{9 \div 1} = \frac{7}{9} \times \frac{1}{4} = \frac{7}{36}$$

$$h \quad \frac{5}{3} = \frac{5 \div 10}{3 \div 1} = \frac{5}{3} \times \frac{1}{2} = \frac{5}{6}$$

$$i \quad \frac{20}{7} = \frac{20 \div 14}{7 \div 1} = \frac{20}{7} \times \frac{1}{3} = \frac{20}{21}$$

$$j \quad \frac{20}{12} = \frac{10}{6} = \frac{10 \div 10}{6 \div 1} = \frac{10}{6} = \frac{5}{3}$$

$$k \quad \frac{24}{3} = \frac{24 \div 10}{3 \div 1} = \frac{24}{3} \times \frac{3}{5} = \frac{36}{5}$$

$$\frac{1}{2} = \frac{1}{2} \quad \frac{1}{5} = \frac{1}{5} \quad \frac{1}{10} = \frac{1}{10} \quad \frac{1}{15} = \frac{1}{15}$$

$$\frac{1}{10}$$