

Exercise - 9-D

Date _____

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1. Divide:

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

$$(b) \frac{12}{13} \div 15 = \frac{12}{13} \times \frac{1}{15}$$

$$= \frac{12 \times 1}{13 \times 15} = \frac{12}{195} = \frac{4}{65}$$

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

$$= 4$$

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

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

$$= \frac{6}{5}$$

$$(f) \frac{36}{27} \div \frac{13}{15} = \frac{36}{27} \times \frac{15}{13} = \frac{10}{9} = 1\frac{1}{9}$$

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

$$(h) 91 \div \frac{36}{27} = 91 \times \frac{27}{36} = \frac{2457}{36}$$

$$= \frac{189}{2} = 94\frac{1}{2}$$

$$(i) \frac{4}{125} \div 2\frac{1}{27} = \frac{4}{125} \times \frac{27}{27}$$

$$= \frac{184}{15} \div \frac{505}{27} = \frac{184}{15} \times \frac{27}{27}$$

$$= \frac{184}{15} \times \frac{27}{55} = \frac{1656}{275}$$

$$= 6\frac{6}{275}$$

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

$$= \left(\frac{3}{4} \div \frac{1}{2} \right) \div \frac{6}{7}$$

$$= \left(\frac{3}{4} \times \frac{2}{1} \right) \div \frac{6}{7}$$

$$= \frac{3}{2} \div \frac{6}{7}$$

$$= \frac{3}{2} \times \frac{7}{6} = \frac{7}{4} = \frac{13}{4}$$

$$K) \frac{9}{4} \div \frac{13}{10} \div \frac{3}{13}$$

$$= \left(\frac{9}{4} \div \frac{13}{10} \right) \div \frac{3}{13}$$

$$= \left(\frac{9}{4} \times \frac{10}{13} \right) \div \frac{3}{13} = \frac{45}{26} \div \frac{3}{13}$$

$$= \frac{15 \cdot 45}{28} \times \frac{18^1}{3} = \frac{15}{2} = 7\frac{1}{2}$$

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

$$= \left(\frac{14}{3} \div \frac{3}{2} \right) \div \frac{5}{3}$$

$$= \left(\frac{14}{3} \times \frac{2}{3} \right) \div \frac{5}{3}$$

$$= \frac{28}{9} \div \frac{5}{3} = \frac{28}{9} \times \frac{3}{5}$$

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

$$2.a) \frac{\frac{3}{5}}{\frac{7}{10}} = \frac{3}{5} \div \frac{7}{10}$$

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

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

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

$$\begin{aligned}
 (c) \frac{8}{15} &= \frac{8}{15} \div \frac{35}{36} \\
 &= \frac{8}{15} \times \frac{36}{35} = \frac{288}{525} \\
 &= \frac{96}{175}
 \end{aligned}$$

$$\begin{aligned}
 (d) \frac{13}{17} &= \frac{13}{17} \div 5 \\
 &= \frac{13}{17} \times \frac{1}{5} = \frac{13}{85}
 \end{aligned}$$

$$\begin{aligned}
 (e) \frac{8}{6} &= \frac{8}{6} \div 7 \\
 &= \frac{8}{6} \times \frac{1}{7} = \frac{8}{42} = \frac{4}{21}
 \end{aligned}$$

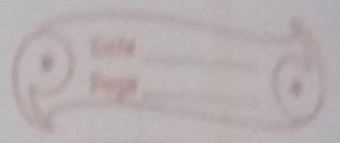
$$\begin{aligned}
 (f) \frac{2}{19} &= \frac{2}{19} \div 4 \\
 &= \frac{2}{19} \times \frac{1}{4} = \frac{1}{38}
 \end{aligned}$$

$$(g) \frac{7}{28} = \frac{7}{9} \div 38$$
$$= \frac{7}{9} \times \frac{1}{38} = \frac{1}{36}$$

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

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

$$(j) \frac{10}{9} = \frac{10}{5} \div \frac{5}{3}$$
$$= \frac{10}{5} \times \frac{3}{5} = 6$$



$$(k) \frac{24}{33} = \frac{24}{10} = 24 \div \frac{10}{3}$$

$$= \overset{12}{24} \times \frac{3}{\underset{5}{10}} = \frac{36}{5}$$

$$= 7\frac{1}{5}$$

$$(l) \frac{3\frac{2}{9}}{1\frac{1}{2}} = \frac{\frac{15}{9}}{\frac{3}{2}} = \frac{15}{9} \div \frac{3}{2}$$

$$= \frac{\overset{5}{15}}{2} \times \frac{\overset{1}{2}}{\cancel{3}_1} = \frac{5}{2} = 2\frac{1}{2}$$