Homework
Fractional Arithmetic Part 3

Q1.

Add these fractions.

a $\frac{1}{3}+\frac{3}{4}$ **b** $\frac{2}{5}+\frac{3}{10}$ **c** $\frac{1}{2}+\frac{7}{8}$

d $\frac{1}{75}+\frac{6}{25}$ **e** $\frac{3}{7}+\frac{5}{21}$ **f** $\frac{12}{15}+\frac{5}{20}$

Add the fractions, then write the answer as a mixed number.

a $\frac{3}{7}+\frac{2}{3}$ **b** $\frac{5}{8}+\frac{4}{6}$ **c** $\frac{9}{15}+\frac{4}{5}$

d $\frac{75}{100}+\frac{30}{50}$ **e** $\frac{5}{12}+\frac{15}{18}$ **f** $\frac{5}{9}+\frac{23}{45}$

a $\frac{1}{3}+\frac{1}{12}+\frac{1}{8}$ **b** $\frac{1}{5}+\frac{3}{10}+\frac{7}{20}+\frac{7}{10}$

c $\frac{2}{3}+\frac{5}{6}+\frac{4}{9}+\frac{5}{12}$ **d** $\frac{3}{16}+\frac{3}{8}+\frac{3}{4}+\frac{5}{16}$

e $\frac{7}{10}+\frac{1}{15}+\frac{11}{30}+\frac{1}{5}$ **f** $\frac{1}{14}+\frac{6}{7}+\frac{4}{7}+\frac{9}{14}+\frac{1}{7}$

Q2. Subtract

a $\frac{2}{3}-\frac{1}{3}$ **b** $\frac{3}{8}-\frac{2}{8}$ **c** $\frac{5}{9}-\frac{2}{9}$ **d** $\frac{3}{5}-\frac{3}{10}$

e $\frac{5}{8}-\frac{1}{4}$ **f** $\frac{1}{7}-\frac{1}{14}$ **g** $\frac{5}{6}-\frac{7}{12}$ **h** $\frac{7}{10}-\frac{2}{5}$

Q3. Calculate

Calculate, and simplify where you can.

a $\frac{1}{2}\times\frac{1}{4}$ **b** $\frac{1}{2}\times\frac{1}{2}$ **c** $\frac{1}{3}\times\frac{2}{3}$

d $\frac{1}{2}\times\frac{2}{3}$ **e** $\frac{4}{5}\times\frac{9}{20}$ **f** $\frac{3}{4}\times\frac{4}{7}$

g $\frac{6}{7}\times\frac{7}{8}$ **h** $\frac{5}{9}\times\frac{4}{5}$

Calculate, and simplify where you can.

a $21\div\frac{1}{3}$ **b** $42\div\frac{5}{6}$ **c** $36\div\frac{1}{3}$

d $\frac{1}{4}\div\frac{1}{2}$ **e** $\frac{1}{2}\div\frac{1}{4}$ **f** $\frac{3}{4}\div\frac{1}{2}$

g $\frac{1}{2}\div\frac{3}{4}$ **h** $\frac{3}{5}\div\frac{1}{15}$ **i** $\frac{19}{20}\div\frac{1}{4}$

Q4.

Copy and complete these equivalent fractions.

a $\frac{3}{4} = \frac{\square}{12}$ **b** $\frac{5}{8} = \frac{\square}{80}$ **c** $\frac{6}{11} = \frac{18}{\square}$

d $\frac{2}{7} = \frac{16}{\square}$ **e** $\frac{3}{\square} = \frac{15}{40}$ **f** $\frac{\square}{1} = \frac{14}{7}$

g $\frac{\square}{10} = \frac{24}{20}$ **h** $\frac{13}{14} = \frac{\square}{42}$ **i** $\frac{2}{7} = \frac{10}{\square}$

j $\frac{19}{20} = \frac{190}{\square}$ **k** $\frac{11}{21} = \frac{55}{\square}$ **l** $\frac{11}{\square} = \frac{44}{8}$

Q5

Copy and complete.

a $\frac{5}{11} \div \frac{3}{5} = \frac{5}{11} \times \frac{\square}{\square}$ **b** $\frac{1}{3} \div \frac{1}{5} = \frac{1}{3} \times \frac{\square}{\square}$

c $\frac{7}{10} \div \frac{12}{17} = \frac{7}{10} \times \frac{\square}{\square}$ **d** $\frac{8}{3} \div 3 = \frac{8}{3} \times \frac{\square}{\square}$

e $\frac{7}{10} \div \frac{1}{2} = \frac{7}{10} \times \frac{\square}{\square}$ **f** $1\frac{1}{2} \div \frac{1}{4} = \frac{3}{2} \times \frac{\square}{\square}$

g $\frac{3}{5} \div \frac{1}{10} = \frac{3}{5} \times \frac{\square}{\square}$ **h** $1\frac{1}{2} \div 2\frac{1}{3} = \frac{\square}{\square} \times \frac{3}{7}$

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