

Day 7: Adding and Subtracting Fractions

1. Add or subtract the following fractions.

a. $\frac{2}{3} + \frac{2}{7}$
 $\frac{14}{21} + \frac{6}{21} = \boxed{\frac{20}{21}}$

b. $\frac{5}{7} + \frac{1}{2}$
 $\frac{10}{14} + \frac{7}{14} = \boxed{\frac{17}{14} \text{ or } 1\frac{3}{14}}$

c. $\frac{3}{4} - \frac{2}{7}$
 $\frac{21}{28} - \frac{8}{28} = \boxed{\frac{13}{28}}$

d. $\frac{5}{6} - \frac{1}{4}$
 $\frac{10}{12} - \frac{3}{12} = \boxed{\frac{7}{12}}$

2. Nadia spent $\frac{1}{4}$ of her money on a shirt and $\frac{2}{5}$ of her money on new shoes. What fraction of Nadia's money was spent? What fraction of her money is left?

Spent
 $\frac{1}{4} + \frac{2}{5}$
 $\frac{5}{20} + \frac{8}{20} = \boxed{\frac{13}{20} \text{ of her money}}$

Leftover
 $1 - \frac{13}{20}$
 $\frac{20}{20} - \frac{13}{20} = \boxed{\frac{7}{20} \text{ remaining}}$

3. Carlos wants to practice piano 2 hours each day. He practices piano for $\frac{3}{4}$ hour before school and $\frac{7}{10}$ hour when he gets home. How many hours has Carlos practiced piano? How much longer does he need to practice before going to bed in order to meet his goal?

Practiced
 $\frac{3}{4} + \frac{7}{10}$
 $\frac{15}{20} + \frac{14}{20} = \boxed{\frac{29}{20} \text{ or } 1\frac{9}{20} \text{ hours of his goal}}$

Remaining
 $2 - \frac{29}{20}$ or $2 - 1\frac{9}{20}$
 $\frac{40}{20} - \frac{29}{20} = \boxed{\frac{11}{20} \text{ of an hour to meet his goal}}$

4. Mr. Kelly used $\frac{5}{8}$ of a tank of gas on a trip to visit relatives for the weekend and another one half of a tank commuting to work the next week. He then took another weekend trip and used $\frac{1}{4}$ tank of gas. How many tanks of gas did Mr. Kelly use altogether?

$\frac{5}{8} + \frac{1}{2} + \frac{1}{4}$
 $\frac{5}{8} + \frac{4}{8} + \frac{2}{8} = \boxed{\frac{11}{8} \text{ or } 1\frac{3}{8} \text{ tanks of gas}}$

5. Add or subtract the following fractions.

a. $3\frac{1}{4} + 3\frac{5}{8}$
 $3\frac{2}{8} + 3\frac{5}{8}$
 $\boxed{6\frac{7}{8}}$

b. $5\frac{2}{7} - 4\frac{2}{3}$
 $4\frac{27}{21} - 4\frac{14}{21}$
 $\boxed{\frac{13}{21}}$

c. $5\frac{1}{2} - 1\frac{3}{4}$
 $4\frac{2}{4} - 1\frac{3}{4}$
 $\boxed{3\frac{3}{4}}$

d. $4\frac{2}{3} + 6\frac{1}{5}$
 $4\frac{10}{15} + 6\frac{3}{15}$
 $\boxed{10\frac{13}{15}}$