G4-M5-Lesson 18

Show two ways to solve each problem. Express the answer as a mixed number when possible. Use a number bond when it helps you.

1. $\frac{2}{5}+\frac{3}{5}+\frac{1}{5}$

$$\frac{2}{5}+\frac{3}{5}=\frac{5}{5}=1$$

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

I can add $\frac{2}{5}$ and $\frac{3}{5}$ to make 1. Then, I can just add $\frac{1}{5}$ more to get $1\frac{1}{5}$.

$$\frac{2}{5}+\frac{3}{5}+\frac{1}{5}=\frac{6}{5}=1\frac{1}{5}$$

I can use a number bond to decompose $\frac{6}{5}$ into $\frac{5}{5}$ and $\frac{1}{5}$. Since $\frac{5}{5}=1$, I can rewrite $\frac{6}{5}$ as $1\frac{1}{5}$.

Since the units, or denominators, are the same for each addend, fifths, I can just add the number of units, or numerators.

2. $1-\frac{3}{12}-\frac{4}{12}$

I add $\frac{3}{12}$ and $\frac{4}{12}$ to get $\frac{7}{12}$. I need to subtract a total of $\frac{7}{12}$ from 1.

$$\frac{3}{12}+\frac{4}{12}=\frac{7}{12}$$

$$\frac{12}{12}-\frac{7}{12}=\frac{5}{12}$$

I can rename 1 as $\frac{12}{12}$, and I can subtract $\frac{7}{12}$ from $\frac{12}{12}$.

$$\frac{12}{12}-\frac{3}{12}=\frac{9}{12}$$

$$\frac{9}{12}-\frac{4}{12}=\frac{5}{12}$$

I rename 1 as $\frac{12}{12}$. Then, I subtract $\frac{3}{12}$, and finally I subtract $\frac{4}{12}$.