Add the following:

1) $-2.4 + (-4.5) = \text{__________}$  
2) $-4.5 + 7.99 = \text{__________}$

3) $-2 \frac{2}{3} + \left( -3 \frac{1}{4} \right) = \text{_______}$

4) $-2 \frac{2}{3} + \frac{1}{6} = \text{_______}$

5) Jamie got paid at work today. She made $98.56. She had to buy a new muffler for her car, it cost $121.87. What was the total change to Jamie's bank account?

\[
\begin{align*}
98.56 & - 121.87 \\
\underline{121.87} & \quad \underline{98.56}
\end{align*}
\]

\begin{align*}
98.56 + (-121.87) &= -23.31
\end{align*}

6) Guillermo built his house on bad soil. After only one year the house settled (moved down) $\frac{3}{4}$ of an inch. After the next year it settled (moved down again) another $\frac{1}{3}$ inches. What was the total change in Guillermo's house's elevation?

\[
\begin{align*}
-\frac{3}{4} & - \frac{1}{3} \\
-2 \frac{1}{12} & \quad \frac{9}{12} + \frac{4}{12} = \frac{13}{12}
\end{align*}
\]

\begin{align*}
1 \frac{13}{12} \quad -2 \frac{1}{12}
\end{align*}
Do Now: Find and fix any mistakes

**A** \( \frac{3}{4} + \left( -\frac{1}{6} \right) \) (Same Signs)

1. \( \frac{3}{4} + \frac{1}{6} \)
2. \( \frac{3 \cdot 3}{4 \cdot 6} + \frac{1 \cdot 2}{6 \cdot 2} \)
3. \( \frac{9}{12} + \frac{2}{12} \)
4. \( -\frac{11}{12} \) **Keep the sign**

**B** \( -2.5 + 6.9 \) (Different Signs)

1. \( 6.9 \)
2. \( -2.5 \)
3. \( 4.4 \) **use the sign of the bigger number**

Name:______________________________________ Date:________________

7R: Notes Mr. Grunenwald/Mr. Toscano
Station 1: Adding Rational Numbers with the SAME SIGN

Rule:

1) -3 + (-1.5) = _____________

2) \(-\frac{1}{2} + \left(-\frac{1}{2}\right)\) = _____________

3) 2.6 + 8.77 = _____________

4) \(-\frac{2}{3} + \left(-\frac{2}{5}\right)\) = _____________

5) A submarine submerged at a depth of -35.25 meters dives an additional 8.5 meters. What is the new depth of the submarine?

6) Renee lost \(\frac{1}{4}\) pounds in week one of her diet. She lost an additional \(\frac{2}{5}\) pounds in the second week. What was Renee's total change in weight?

7) Jay ran \(\frac{5}{4}\) miles on Monday and \(\frac{6}{8}\) miles on Tuesday, how many total miles did he run?
Station 2: Adding Rational Numbers with DIFFERENT SIGNS

Rule:

1) $3 + (-1.5) = \underline{\underline{}}$

2) $\frac{2}{3} + \left( -\frac{2}{5} \right) = \underline{\underline{}}$

3) $-2.6 + 8.77 = \underline{\underline{}}$

4) $-5\frac{3}{5} + 3\frac{1}{4} = \underline{\underline{}}$

5) Julia spends $2.25 on gas for her lawn mower. She earns $15.00 mowing her neighbor's yard. What is the change to Julia's bank account?

6) Ryleigh was $3\frac{2}{5}$ feet in a hole. She climbed $8\frac{3}{4}$ feet up a ladder. What was her elevation?

7) The average elevation of the city of New Orleans, LA is 1.5 m below sea level. The highest point in Louisiana is Driskill Mountain at about 163.5 m higher than New Orleans. How high is Driskill Mountain?
Exit Card: \textbf{Explain} How to Evaluate (YOU DON'T NEED TO EVALUATE) the following

\[-5\frac{2}{7} + 8\frac{3}{4}\]

Homework: Page 72, #1,3,6,7,8,11,15,16