I can add and subtract signed fractions.

- If given mixed numbers, change to ______ fractions (easier when working with negatives).
- · Find a common denominator.
- Keep the <u>denominators</u> the same.

EXAMPLES:

$$A - \frac{3}{4} + 1\frac{1}{2} \quad \frac{-3}{4} + \frac{3}{2} \Rightarrow \frac{-3}{4} + \frac{6}{4} = \boxed{\frac{3}{4}}$$

B.
$$2\frac{5}{8} - \left(-\frac{2}{5}\right) \frac{21}{8} + \frac{2}{5} \rightarrow \frac{105}{40} + \frac{16}{40} = \frac{121}{40} \text{ or } 3\frac{1}{40}$$

$$c. -3\frac{1}{2} - \frac{4}{7} - \frac{49}{2} - \frac{8}{14} - \frac{8}{14} = \frac{-57}{14} \text{ or } -4\frac{1}{14}$$

$$D. \frac{2}{3} + \left(-\frac{9}{10}\right) \frac{20}{30} + \frac{-27}{30} = \left(-\frac{7}{30}\right)$$

AIR/Test Practice

1) Enter the value of $\frac{3}{4} + \frac{7}{12} - (-4)$.

$$\frac{9}{12} + \frac{7}{10} + \frac{48}{12} = \frac{64}{12} = \frac{10}{3} = 5\frac{1}{3}$$

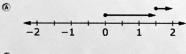
Select all that apply.

A.
$$3\frac{1}{4} - (\frac{5}{8})$$

Which expressions are equivalent to $3\,rac{1}{4}-\left(-rac{5}{8}
ight)$?

$$\left(\frac{1}{8} \right) 3 \frac{1}{4} + \left(\frac{5}{8} \right)$$

2) Which number line model represents the sum of $1\frac{1}{2} + (-\frac{1}{2})$?



C. $3\frac{1}{4} + \left(-\frac{5}{8}\right)$

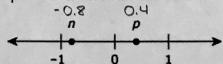
E.
$$-3\frac{1}{4} + \left(-\frac{5}{8}\right)$$

F.
$$-3\frac{1}{4} + \left(+\frac{5}{8}\right)$$

4) Kari has a total of 12 ³/₄ yards of string for her craft project. She uses 3 ¹/₅ yards of string. She needs 4½ yards of string to finish her project. Will she have enough string? If so, how much will she have left over? If not, how much string does she need?

$$12\frac{3}{4} - 3\frac{1}{5} \Rightarrow \frac{51}{4} - \frac{16}{5} \Rightarrow \frac{255}{20} - \frac{64}{20} = \frac{191}{20} - \frac{85}{20} = \frac{106}{20} = \frac{53}{10} = \frac{14}{10} = \frac{85}{20} = \frac{106}{20} = \frac{53}{10} = \frac{106}{20} = \frac{106}{20} = \frac{53}{10} = \frac{106}{20} = \frac{53}{10} = \frac{106}{20} = \frac{106}{20} = \frac{53}{10} = \frac{106}{20} = \frac{106}{20}$$

5) Two numbers, n and p are plotted on the number line shown.



The numbers n-p , n+p , and p-n will be plotted on the number line.

The number with the least value is (n-p, n+p, or p-n) and the number with the greatest value is (n-p, n+p, or p-n).