

HW: IXL Assignment (on Google Classroom)

Warm up:

Evaluate.

1)

$$\frac{2}{4} + \frac{1}{4}$$

$$\frac{3}{4}$$

2)

$$\frac{5}{9} + \frac{3}{9}$$

$$\frac{8}{9}$$

3)

$$\frac{6}{7} - \frac{2}{7}$$

$$\frac{4}{7}$$

$$\begin{array}{r} \times 3 \\ \times 3 \end{array} \quad \frac{2}{3} + \frac{5}{9}$$
$$\frac{6}{9} + \frac{5}{9} = \frac{11}{9} = \left(1\frac{2}{9}\right)$$

3, 6, 9, 12, 15, 18, 21, ...
9, 18, 27, ...

To add or subtract fractions, you need a...

least common
denominator

$$\begin{array}{r} \frac{6}{7} - \frac{5}{6} \\ \xrightarrow{\times 6} \quad \xrightarrow{\times 7} \\ \frac{36}{42} - \frac{35}{42} \\ \hline \frac{1}{42} \end{array}$$

$$\frac{3}{8} - \frac{5}{8} = \frac{19}{8} = 2\frac{3}{8}$$

$$\frac{3}{2} + \frac{4}{5}$$

$$3\frac{1}{2} + \frac{4}{5}$$

$$\frac{3}{2} + \frac{4}{5} = \frac{15}{10} + \frac{8}{10} = \frac{23}{10} = 2\frac{3}{10}$$

$$2\frac{3}{4} + 1\frac{2}{3}$$

$$\frac{11}{4} + \frac{5}{3}$$

$$\frac{33}{12} + \frac{20}{12} = \frac{53}{12} = 4\frac{5}{12}$$

$$\begin{array}{r} 33 \\ +20 \\ \hline 53 \\ 12 \end{array}$$

The image shows handwritten mathematical work for adding mixed numbers. At the top, the problem is written as $6 \frac{3}{5} + 3 \frac{5}{7}$. A blue arrow points from the 3 in the denominator of the second fraction to the 5 in the denominator of the first, indicating a common denominator of 35. Below this, the fractions are converted to $\frac{33}{5}$ and $\frac{26}{7}$. A subtraction problem $\frac{33}{5} - \frac{26}{7}$ is shown, with the result $\frac{101}{35}$. This result is then added to the integer part of the sum, yielding $2 \frac{31}{35}$, which is circled in blue. To the left, there are several other handwritten calculations, including $\frac{23}{1}$ and $\frac{101}{35}$.

$$1) \quad \frac{5}{8} + \frac{3}{7}$$

$$2) \quad \frac{7}{9} - \frac{1}{2}$$

$$3) \quad 2\frac{5}{6} + 3\frac{1}{8}$$

$$4) \quad 3\frac{1}{4} - 1\frac{7}{9}$$

1)

$$\frac{5}{8} + \frac{3}{7}$$

$$\frac{35}{56} + \frac{24}{56}$$

$$\frac{59}{56} = 1\frac{3}{56}$$

$$2) \quad \frac{7}{9} - \frac{1}{2}$$

(Handwritten red annotations: "x2" with arrows pointing to the denominators 9 and 2, and another "x2" with an arrow pointing to the denominator 18 in the next step.)

$$\frac{14}{18} - \frac{9}{18} = \frac{5}{18}$$

(The final result $\frac{5}{18}$ is circled in blue.)

$$3) \quad 2\frac{5}{6} + 3\frac{1}{8}$$

$$4) \quad 3\frac{1}{4} - 1\frac{7}{9}$$

