Number

Activity 17 Assessment

Adding and Subtracting Fractions and Mixed Numbers

Adding and Subtracting Fractions

Estimates the sum or difference of fractions or mixed numbers	Adds or subtracts fractions or mixed numbers	Completes calculations involving both adding and subtracting fractions or mixed numbers	Solves problems that involve the addition and/or subtraction of fractions
$2\frac{7}{10} + 3\frac{1}{5}$ "Because $\frac{1}{5}$ is a small fraction, I can think of the second number as 3. To compensate and because $\frac{7}{10}$ is a bigger fraction, I'll think of the first number as 3. My estimate for the sum is 3 + 3 = 6."	"To add $2\frac{7}{10} + 3\frac{1}{5}$, I'm going to think of the whole numbers and fractions separately. $(2 + 3) + (\frac{7}{10} + \frac{1}{5})$ $= 5 + (\frac{7}{10} + \frac{1}{5})$ I need to express both fractions with the same denominator. $= 5 + (\frac{7}{10} + \frac{1}{5} \times \frac{2}{2})$ $= 5 + (\frac{7}{10} + \frac{2}{10})$ $= 5\frac{9}{10}$"	"$1\frac{3}{4} - \frac{5}{8} + \frac{1}{2}$ I'm going to write equivalent fractions with denominators of 8. $1 + (\frac{3}{4} \times \frac{2}{2}) - \frac{5}{8} + (\frac{1}{2} \times \frac{4}{4})$ $= 1\frac{6}{8} - \frac{5}{8} + \frac{4}{8}$ $= 1\frac{1}{8} + \frac{4}{8}$ $= 1\frac{5}{8}$"	"Samar is cutting pieces from a 4 ft long wooden board. How much is left after they cut a piece $1\frac{2}{3}$ ft long and another piece $\frac{3}{4}$ ft long? I can represent this with the expression $4 - 1\frac{2}{3} - \frac{3}{4}$. First, I'll subtract the whole numbers. $4 - 1\frac{2}{3} - \frac{3}{4} = 3 - \frac{2}{3} - \frac{3}{4}$ Next, I'll write each number as a fraction with a denominator of 12. $= \frac{36}{12} - \frac{8}{12} - \frac{9}{12}$ $= \frac{19}{12}$, or $1\frac{7}{12}$ There are $1\frac{7}{12}$ ft left."

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Observations/Documentation			