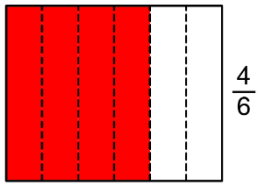
Number

Activity 23 Assessment

Adding and Subtracting Fractions with Like Denominators

Adding and Subtracting Fractions with Like Denominators

Expresses the composition or decomposition of a quantity as a sum or difference



"I can think of $\frac{4}{6}$ as $\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}$, or as $\frac{1}{6}+\frac{3}{6}$.

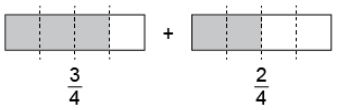
I can also think of $\frac{4}{6}$ as $\frac{6}{6}-\frac{1}{6}-\frac{1}{6}$, or as $\frac{6}{6}-\frac{2}{6}$."

(« Je peux penser à $\frac{4}{6}$ comme $\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}$, ou comme $\frac{1}{6}+\frac{3}{6}$.

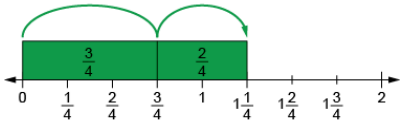
Je peux aussi penser à $\frac{4}{6}$ comme $\frac{6}{6}-\frac{1}{6}-\frac{1}{6}$, ou comme $\frac{6}{6}-\frac{2}{6}$. »)

Adds and subtracts concretely or pictorially

$\frac{3}{4}+\frac{2}{4}=?$



"Because each whole is divided into fourths, I can add the parts. 3 fourths + 2 fourths = 5 fourths. 5 fourths make 1 whole and $\frac{1}{4}$."



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

"I modelled on the number line, then counted on from $\frac{3}{4}$: 4 fourths, 5 fourths."

Adds and subtracts symbolically

$3\frac{1}{8}-\frac{6}{8}=?$

$3\frac{1}{8}=\frac{25}{8}$

$\frac{25}{8}-\frac{6}{8}=\frac{19}{8}$, or $2\frac{3}{8}$

"I converted $3\frac{1}{8}$ to $\frac{25}{8}$, then subtracted. I checked my answer using addition."

(« J'ai converti $3\frac{1}{8}$ en $\frac{25}{8}$, puis j'ai fait une soustraction. J'ai vérifié ma réponse à l'aide de l'addition. »)

Flexibly solves problems involving the addition and subtraction of fractions

$1\frac{3}{10}+\frac{8}{10}+?=2\frac{7}{10}$

$1\frac{3}{10}+\frac{8}{10}=1\frac{11}{10}=2\frac{1}{10}$

$2\frac{7}{10}-2\frac{1}{10}=\frac{6}{10}$

$2\frac{1}{10}+\frac{6}{10}=2\frac{7}{10}$

"$\frac{6}{10}$ needs to be added to the other fractions to equal $2\frac{7}{10}$."

(« Il faut ajouter $\frac{6}{10}$ aux autres fractions pour obtenir $2\frac{7}{10}$. »)

Observations/Documentation