

Activity 9 Assessment

Adding and Subtracting Fractions

Adding and Subtracting Fractions

Adds and subtracts fractions or mixed numbers with like denominators

$$\frac{3}{5} + \frac{7}{5} = \frac{10}{5}, \text{ or } 2$$

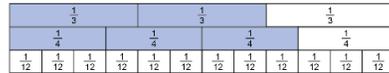
$$\frac{7}{5} - \frac{3}{5} = \frac{4}{5}$$

Adds or subtracts fractions or mixed numbers with unlike denominators

“To subtract $\frac{2}{3}$ from $\frac{3}{4}$, I need to

express both fractions with the same denominator. Using fraction strips, I rewrite the calculation as

$$\frac{9}{12} - \frac{8}{12} = \frac{1}{12}.”$$



Completes calculations involving both adding and subtracting fractions or mixed numbers with unlike denominators

$$3 - \frac{1}{6} + \frac{2}{3} - \frac{3}{2}$$

“I know that $3 - \frac{3}{2}$ is equal to $\frac{3}{2}$,

so I did that first. Now I have the

$$\text{calculation } \frac{3}{2} - \frac{1}{6} + \frac{2}{3}.$$

I can write each fraction with a denominator of 6:

$$\frac{3}{2} \times \frac{3}{3} - \frac{1}{6} + \frac{2}{3} \times \frac{2}{2}$$

$$= \frac{9}{6} - \frac{1}{6} + \frac{4}{6}$$

$$= \frac{12}{6}, \text{ or } 2$$

Writes an expression to represent and solve a problem

Dani has 4 yd of fabric. They cut off

a piece $\frac{7}{8}$ yd long to sew a pair of

shorts. They also cut a piece $2\frac{3}{4}$ yd

long to sew a shirt. Does Dani have enough fabric left to sew another pair of shorts?

“I can describe this with the

$$\text{expression } 4 - \frac{7}{8} - 2\frac{3}{4}.$$

First, I subtract 2 from 4, which

leaves $2 - \frac{7}{8} - \frac{3}{4}$. Using a common

denominator of 8, I get $\frac{16}{8} - \frac{7}{8} - \frac{6}{8} = \frac{3}{8}$,

which is not enough to sew another pair of shorts.

Number

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Observations/Documentation

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