Number

Activity 20 Assessment Adding Fractions and Mixed Numbers

Adding Fractions and Mixed Numbers			
Models addition of fractions or mixed numbers with like denominators	Models addition of fractions or mixed numbers with unlike denominators	Uses equivalent fractions to add fractions or mixed numbers	Solves a problem involving the addition of fractions or mixed numbers
$\frac{3}{6} + \frac{2}{6}$	$\frac{1}{2} + \frac{7}{12}$	$1\frac{1}{2} + \frac{7}{6}$	A student studied $1\frac{3}{4}h$ for a math
I used pattern blocks. A triangle is $\frac{1}{6}$. So, $3 + 2 = 5$ triangles make $\frac{5}{6}$. So, $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$.	I divided one rectangle into 2 equal pieces and another rectangle into 12 equal pieces. I shaded 1 part of the first rectangle and 7 parts of the second rectangle. I needed the sizes of the pieces to be the same, so I divided the 2 parts of the first rectangle into 6 parts each; altogether this made 12 parts. This showed 6 of 12 parts and 7 of 12 parts being shaded. Altogether, this combined to 13 parts. There are 12 parts in one whole, so the answer is $1\frac{1}{12}$.	$1\frac{1}{2} + \frac{7}{6} = \frac{3}{2} + \frac{7}{6}$ $= \frac{9}{6} + \frac{7}{6}$ $= \frac{16}{6}$ $= 2\frac{4}{6}$ $= 2\frac{2}{3}$	test and $1\frac{2}{3}$ h for a science test. How long did the student study in total? $1\frac{3}{4} + 2\frac{1}{3} = (1+2) + (\frac{3}{4} + \frac{1}{3})$ $= (1+2) + (\frac{9}{12} + \frac{4}{12})$ $= 3 + \frac{13}{12}$ $= 3 + 1 + \frac{1}{12}$ $= 4\frac{1}{12}$ The student studied for $4\frac{1}{12}$ h.
Observations/Documentation			