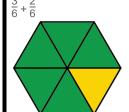
## **Activity 14 Assessment**

## **Adding Fractions and Mixed Numbers**

## **Adding Fractions and Mixed Numbers**

Models addition of fractions or mixed numbers with like denominators

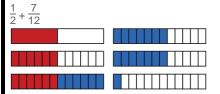


I used pattern blocks. A triangle is  $\frac{1}{6}$ 

So, 3 + 2 = 5 triangles make  $\frac{5}{6}$ .

So, 
$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

Models addition of fractions or mixed numbers with unlike denominators



I divided one fraction strip (rectangle) into 2 equal pieces and another fraction strip (rectangle) into 12 equal pieces. I shaded 1 part of the first fraction strip (rectangle) and 7 parts of the second fraction strip (rectangle). I needed the sizes of the pieces to be the same,

so I divided the 2 parts of the first fraction strip (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  $1\frac{1}{12}$ .

Uses equivalent fractions to add fractions or mixed numbers

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

$$1\frac{1}{2} + \frac{7}{6} = \frac{3}{2} + \frac{7}{6}$$

$$= \frac{9}{6} + \frac{7}{6}$$

$$= \frac{16}{6}$$

$$=2\frac{4}{6}$$

Solves a problem involving the addition of fractions or mixed numbers

A student studied  $1\frac{3}{4}$  h for a math

test and  $1\frac{2}{3}$  h for a science test.

How long did the student study in total?

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

$$= (1+2) + (\frac{3}{4} + \frac{1}{3})$$

$$= (1+2) + (\frac{9}{12} + \frac{4}{12})$$

$$= 3 + \frac{13}{12}$$

$$= 3 + 1 + \frac{1}{12}$$

The student studied for  $4\frac{1}{12}$  h.

## **Observations/Documentation**