## Activity 14 Assessment

Adding Fractions and Mixed Numbers

| Adding Fractions and Mixed Numbers |  |  |  |
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| Models addition of fractions or mixed numbers with like denominators <br> $\frac{3}{6}+\frac{2}{6}$ <br> I used pattern blocks. A triangle is $\frac{1}{6}$. <br> So, $3+2=5$ triangles make $\frac{5}{6}$. <br> So, $\frac{3}{6}+\frac{2}{6}=\frac{5}{6}$. | Models addition of fractions or mixed numbers with unlike denominators <br> 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, <br> 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 $\begin{aligned} & 1 \frac{1}{2}+\frac{7}{6} \\ & 1 \frac{1}{2}+\frac{7}{6}=\frac{3}{2}+\frac{7}{6} \\ &=\frac{9}{6}+\frac{7}{6} \\ &=\frac{16}{6} \\ &=2 \frac{4}{6} \\ &=2 \frac{2}{3} \end{aligned}$ | Solves a problem involving the addition of fractions or mixed numbers <br> A student studied $1 \frac{3}{4} \mathrm{~h}$ for a math test and $1 \frac{2}{3} \mathrm{~h}$ for a science test. <br> How long did the student study in total? $\begin{aligned} & 1 \frac{3}{4}+2 \frac{1}{3} \\ & =(1+2)+\left(\frac{3}{4}+\frac{1}{3}\right) \\ & =(1+2)+\left(\frac{9}{12}+\frac{4}{12}\right) \\ & =3+\frac{13}{12} \\ & =3+1+\frac{1}{12} \\ & =4 \frac{1}{12} \end{aligned}$ <br> The student studied for $4 \frac{1}{12} \mathrm{~h}$. |
| Observations/Documentation |  |  |  |
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