## Number

## Activity 17 Assessment Dividing Fractions and Mixed Numbers

Dividing Fractions and Mixed Numbers			
Models division of a fraction by a whole number	Models division of fractions and mixed numbers	Applies a rule for dividing fractions, including mixed numbers	Solves a problem involving the division of fractions and mixed numbers
$\frac{1}{2} \div 3$ I used pattern blocks. A trapezoid is $\frac{1}{2}$ . A trapezoid is made up of 3 triangles. So, $\frac{1}{2} \div 3$ is $\frac{1}{6}$ .	$\frac{5}{6} \div \frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{3}$ I divided a rectangle in sixths and shaded 5 parts. Then, I drew a line to cut the same rectangle in half. $\frac{1}{2}$ goes into $\frac{5}{6}$ once and then $\frac{2}{3}$ more. So, $\frac{5}{6} \div \frac{1}{2} = 1\frac{2}{3}$ .	$2\frac{3}{4} \div 1\frac{1}{2}$ I wrote the mixed numbers as improper fractions. Then, I wrote the fractions with a common denominator and divided the numerators. $2\frac{3}{4} \div 1\frac{1}{2} = \frac{11}{4} \div \frac{3}{2}$ $= \frac{11}{4} \div \frac{6}{4}$ $= \frac{11}{6}$ $= 1\frac{5}{6}$	A painter used $2\frac{3}{4}$ cans of paint for the first room and $1\frac{1}{2}$ cans for the second room. How many more times as much paint did the first room use than the second? $2\frac{3}{4} \div 1\frac{1}{2} = \frac{11}{4} \div \frac{3}{2}$ $= \frac{11}{4} \times \frac{2}{3}$ $= \frac{22}{12}$ $= 1\frac{10}{12}$ $= 1\frac{5}{6}$ The first room used $1\frac{5}{6}$ times as much paint as the second room.
Observations/Documentation			