PROBLEM SOLVED
MAKING SENSE OF MATHEMATICS

Compare the following fractions without finding a common denominator. Use number sense to determine your answer mentally. Circle the greater fraction and describe the reasoning you used.

Fractions	Reasoning
($\frac{9}{8}$) $\frac{13}{12}$	*Strategy: Write as mixed numbers* *Reasoning: Nine eighths is one eighth greater than one. Thirteen twelfths is one twelfth greater than one. One eighth is greater than one twelfth.*
$\frac{9}{16}$ **($\frac{7}{8}$)**	*Strategy: Compare to three fourths* *Reasoning: Twelve sixteenths equals three fourths, so nine sixteenths is less than three fourths. Six eighths equals three fourths, so seven eighths is greater than three fourths.*
$\frac{12}{13}$ **($\frac{14}{15}$)**	*Strategy: Compare to one* *Reasoning: Both fractions are one part less than one. One fifteenth is less than one thirteenth. Fourteen fifteenths is missing a smaller part.*
$\frac{5}{3}$ **($\frac{5}{2}$)**	*Strategy 1: Compare size of parts* *Reasoning: One half is larger than one third. Five larger parts are greater than five smaller parts.* *Strategy 2: Write as Mixed Numbers* *Reasoning: Five thirds is equal to one and two thirds, and five halves is equal to two and one half. Two and one half is larger.*
$\frac{3}{5}$ **($\frac{13}{15}$)**	*Strategy: Compare to one* *Reasoning: Both fractions are two parts less than one. One fifth is greater than one fifteenth, so two fifths is greater than two fifteenths. Thirteen fifteenths is missing two smaller parts.*
($\frac{3}{8}$) $\frac{1}{6}$	*Strategy: Compare to one fourth* *Reasoning: One sixth is less than one fourth and two eighths equals one fourth, so three eighths is greater than one fourth.*
$\frac{12}{5}$ **($\frac{8}{3}$)**	*Strategy: Write as mixed numbers* *Reasoning: Eight thirds is two thirds greater than two. Twelve fifths is two fifths greater than two. Two thirds is greater than two fifths.*

MakingSense