Name_____

Reteaching Page
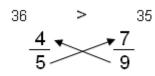# 4.6 Compare and Order Fractions

Comparing Fractions:

You can easily compare two fractions using cross multiplication.

Start with the left denominator and multiply by the right numerator.

Then multiply the right denominator by the left numerator.

Now compare the products.

$$36 \quad > \quad 35$$

$$\frac{4}{5} \quad > \quad \frac{7}{9}$$

Use cross multiplication to compare the following fractions:

$$\frac{4}{5} \bigcirc \frac{7}{9} \qquad \frac{2}{3} \bigcirc \frac{4}{6} \qquad \frac{3}{7} \bigcirc \frac{5}{11} \qquad \frac{1}{5} \bigcirc \frac{2}{9}$$

Ordering Fractions:

Since your tests will usually ask you to compare fractions and decimals, turning fractions into decimals is the most sensible way for a 6th grade student order fractions.

Put $^5/_8$, $^3/_4$ and $^6/_9$ in order from greatest to least.

Notice that the division problems are incomplete. We only needed to know the decimal to the 100[ths] place so we quit dividing at that point. 0.75 is the largest number, so the order of the fractions is; $^3/_4$, $^6/_9$, $^5/_8$

$$8\overline{)5.00} \quad \begin{array}{r} 0.62 \\ \hline 5.00 \\ 48 \\ \hline 20 \end{array} \qquad \begin{array}{r} 0.75 \\ 4\overline{)3.00} \\ 28 \\ \hline 20 \end{array} \qquad \begin{array}{r} 0.66 \\ 9\overline{)6.00} \\ 54 \\ \hline 60 \end{array}$$

Use division to put the following fraction sets in order from greatest to least.

$^2/_3$, $^1/_5$, $^1/_4$ _____ $^5/_6$, $^6/_8$, $^7/_9$ _____

$$3\overline{)2.00} \qquad 5\overline{)1.00} \qquad 4\overline{)1.00} \qquad\qquad 6\overline{)5.00} \qquad 8\overline{)6.00} \qquad 9\overline{)7.00}$$

$^7/_{11}$, $^2/_3$, $^5/_9$ _____ $^4/_7$, $^3/_5$, $^5/_8$ _____

$$11\overline{)7.00} \qquad 3\overline{)2.00} \qquad 9\overline{)5.00} \qquad\qquad 7\overline{)4.00} \qquad 5\overline{)3.00} \qquad 8\overline{)5.00}$$