Comparing fractions—where the denominators are multiplies....

Numerator!

Remember: 2

               4   Denominator!

Order these fractions smallest to largest.

You may want to first write each fraction with a common denomintor.

1.

$$\frac{2}{3} \qquad \frac{7}{12} \qquad \frac{1}{6} \qquad \frac{1}{3} \qquad \frac{5}{6}$$

$$\frac{}{12} \qquad \frac{}{12} \qquad \frac{}{12} \qquad \frac{}{12} \qquad \frac{}{12}$$

| ____ | ____ | ____ | ____ | ____ |

Smallest   Largest

I know that 3 goes into 12, 4 times. 3 x 4 = 12. 12 is my common denominator.

I must multiply the numerator by the same number as the denominator.

Step 1. Convert to the same denominator: 3 x 4 = 12. Now multiply the numerator by the same amount. 2 x 4 =8

Step 2: Compare fractions...

1. $\frac{2}{3}$ \qquad $\frac{7}{12}$ \qquad $\frac{1}{6}$ \qquad $\frac{1}{3}$ \qquad $\frac{5}{6}$

$$\frac{8}{12} \qquad \frac{7}{12} \qquad \frac{2}{12} \qquad \frac{4}{12} \qquad \frac{10}{12}$$

$$\frac{1}{6} \qquad \frac{1}{3} \qquad \frac{7}{12} \qquad \frac{2}{3} \qquad \frac{5}{6}$$

Smallest   Largest

Now you complete the three below. Order the fractions smallest to largest.

1.

$\frac{3}{4}$ $\frac{2}{3}$ $\frac{11}{12}$ $\frac{5}{6}$ $\frac{7}{12}$

$\frac{}{12}$ $\frac{}{12}$ $\frac{}{12}$ $\frac{}{12}$ $\frac{}{12}$

$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$

Smallest   Largest

2.

$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{5}{12}$ $\frac{1}{12}$

$\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$

$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$

Smallest   Largest

3.

$\frac{2}{5}$ $\frac{3}{10}$ $\frac{1}{2}$ $\frac{3}{5}$ $\frac{7}{20}$

$\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$

$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$	$\underline{\quad}$

Smallest   Largest

Now we're going to do the same thing but compare only two fractions and skip out the middle step. Step 1: convert to a common denominator. Step 2: Compare.

$\frac{1}{3}$ ⬚ $\frac{5}{12}$

Here, I know that 3 goes into 12, 4 times. (3 x 4 =12).

Step 1: So I am going to multiply 1 x 4 = 4 and 3 x 4 = 12 to give me a common denominator of 4/12.

Step 2: I know 4/12 is less than 5/12.

$\frac{7}{12}$ ⬚ $\frac{1}{2}$

Here, I know that 2 goes into 12, 6 times. (2 x 6 =12).

Step 1: So I am going to multiply 1 x 6 = 6 and 2 x 6 = 12 to give me a common denominator of 6/12.

Step 2: I know 6/12 is less than 7/12.

Can you complete the following?

$\frac{3}{8}$ ⬚ $\frac{7}{24}$ $\frac{5}{12}$ ⬚ $\frac{13}{36}$

$\frac{13}{24}$ ⬚ $\frac{7}{12}$ $\frac{28}{40}$ ⬚ $\frac{7}{10}$

$\frac{22}{24}$ ⬚ $\frac{11}{12}$ $\frac{3}{4}$ ⬚ $\frac{25}{36}$

$\frac{7}{8}$ ⬚ $\frac{19}{24}$ $\frac{3}{5}$ ⬚ $\frac{23}{40}$

$\frac{1}{4}$ ⬚ $\frac{6}{24}$ $\frac{1}{10}$ ⬚ $\frac{13}{40}$

$\frac{3}{5}$ ⬚ $\frac{11}{15}$ $\frac{36}{40}$ ⬚ $\frac{9}{10}$

$\frac{4}{15}$ ⬚ $\frac{1}{5}$ $\frac{5}{12}$ ⬚ $\frac{23}{48}$

$\frac{2}{15}$ ⬚ $\frac{4}{30}$ $\frac{7}{12}$ ⬚ $\frac{19}{48}$

$\frac{3}{10}$ ⬚ $\frac{11}{30}$ $\frac{7}{24}$ ⬚ $\frac{17}{48}$

$\frac{5}{6}$ ⬚ $\frac{23}{30}$ $\frac{3}{4}$ ⬚ $\frac{36}{48}$