

|  | Mathematical Practices (MP) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\square$ | Make sense of problems and persevere in solving them. (MP.1) | $\square$ | Use appropriate tools strategically. (MP.5) |
|  | $\square$ | Reason abstractly and quantitatively. (MP.2) | $\square$ | Attend to precision. (MP.6) |
|  | 口 | Construct viable arguments and critique the reasoning of others. (MP.3) | $\square$ | Look for and make use of structure. (MP.7) |
|  |  | Model with mathematics. (MP.4) | $\square$ | Look for and express regularity in repeated reasoning. (MP.8) |
|  |  | ARNER OUTCOME(S) <br> - The student will be able to: <br> - compare two fractions with different numerators and different denominators, <br> - recognize that comparisons are valid only when the two fractions refer to the same whole, <br> - record the results of comparisons with symbols $>$, $=$, or <, and <br> - justify the conclusions, e.g., by using a visual fraction model. |  | SESSMENT TOOLS/METHODS <br> - Formative assessments during the opener and at each station <br> - Comparing Fractions Quiz |
|  |  | RNER PRIOR KNOWLEDGE <br> Learners will need basic knowledge of fractions-- numer |  | resent part of a whole represented by a denominator |



|  | 5. After the stations are complete, use fractions from the various activities to practice comparing as a class. Write two fractions on the board from the stations invite students to answer using <,>, =. <br> 6. Complete the activity with the Comparing Fractions Quiz. |  |
| :---: | :---: | :---: |
|  | DIFFERENTIATION <br> - Have a variety of manipulatives for students to use to model <br> - Students can be mixed skill groups to foster peer tutoring or | fractions ex: buttons, coins, base ten blocks, paper. <br> homogenous groups and work with instructors/volunteers. |
|  | TEACHER REFLECTION/LESSON EVALUATION |  |
|  | ADDITIONAL INFORMATION |  |

## Comparing Fractions: Station 1

You work at the local library that is hosting a book signing. At the last minute, the author needs to change the time of the event from 5:00 pm to 6:00 pm. Because this is a private event you have phone numbers for all 15 of those who registered. You and your coworkers Carl and Tonya start making calls to inform the registrants of the time change. Carl made one-third of the calls, and Tonya made two-fifths of the calls. You made however many calls were left.

How many calls did each of you make and who made the most calls all together? Use pictures and numbers to explain your answer.

## Comparing Fractions: Station 2

The goal is to order the following fractions from greatest to least. First try sorting by estimation. Ask yourself if the fraction is more than a half or less than a half. Use fractions with the same denominators as benchmarks. After you sort by estimation, convert the fractions to those with common denominators in order to get your final answers.

## $\begin{array}{lllll}7 / 12 & 1 / 2 & 3 / 4 & 2 / 3 & 4 / 6\end{array}$

Comparing Fractions: Station 3
Represent the following fractions with an image of your choice, and then order them from least to greatest.

## Three-Fourths <br> Seven-Eighths <br> One-Half

Name :
Score :
Teacher :
Date :

Write the Correct Comparison Symbol ( $>,<$ or $=$ ) in Each Box

$$
\begin{array}{lllllll}
\text { 1) } \frac{1}{3} & \square & \frac{2}{8} & 11) & \frac{1}{2} & \square & \frac{2}{5} \\
\text { 2) } \frac{1}{8} & \square & \frac{1}{3} & 12) & \frac{6}{8} & \square & \frac{4}{10} \\
3) & \frac{2}{8} & \square & \frac{3}{10} & 13) & \frac{7}{10} & \square
\end{array} \frac{3}{8}
$$

Write the Correct Comparison Symbol ( $>,<$ or $=$ ) in Each Box

$$
\begin{aligned}
& \text { 1) } \frac{1}{3} \quad>\frac{2}{8} \\
& \text { 2) } \frac{1}{8} \quad<\frac{1}{3} \\
& \text { 3) } \frac{2}{8} \quad<\quad \frac{3}{10} \\
& \text { 4) } \frac{1}{3} \quad<\quad \frac{8}{10} \\
& \text { 5) } \frac{4}{5} \quad>\frac{6}{12} \\
& \text { 6) } \frac{7}{12} \quad<\frac{9}{12} \\
& \text { 7) } \frac{3}{5} \quad>\frac{2}{4} \\
& \text { 8) } \frac{1}{3} \quad<\frac{1}{2} \\
& \text { 9) } \frac{6}{12} \quad=\frac{2}{4} \\
& \text { 10) } \frac{5}{10} \quad>\quad \frac{2}{5} \\
& \text { 20) } \frac{1}{4} \ll \frac{2}{6} \\
& \text { 19) } \frac{1}{3} \quad>\quad \frac{2}{10} \\
& \text { 18) } \frac{1}{10} \quad<\frac{1}{3}
\end{aligned}
$$

