Fractions Quiz
Study Guide

1. What is a fraction?

   A fraction is an equal part of a whole.

2. How to draw fractions of a whole and fractions of a group.

   whole
   \[
   \begin{array}{c}
   \text{Group}\\
   \end{array}
   \]
   \[
   \begin{array}{c}
   \frac{1}{4}\\
   \end{array}
   \]

3. How to find fractions of a set.

   what is \( \frac{3}{4} \) of 12?

4. Show/explain how the same fraction can be greater depending on the size of the object or group.

   example: \( \frac{1}{2} \)

5. How to order fractions.

   Smallest to largest

   \( \frac{2}{3}, \frac{1}{2}, \frac{3}{4}, \frac{5}{6} \) ⇒ \( \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6} \)
6 What is an equivalent fraction?
Two or more different fractions that show the same value/amount
\[ \frac{1}{2} = \frac{2}{4} = \frac{3}{6} \]

7 Show how to find equivalent fractions.
Multiply top and bottom by the same number
\[ \frac{3 \times 2}{4 \times 2} = \frac{6}{8} \]

8 Identify the numerator and denominator, and explain what they tell you.
\[\begin{align*}
\text{2} & \rightarrow \text{numerator} \rightarrow \text{number of parts you have.} \\
\text{3} & \rightarrow \text{denominator} \rightarrow \text{number of part to make a whole}
\end{align*}\]

9 What is a mixed number? Show how you can convert mixed number fractions to improper fractions.
\[ 2\frac{1}{2} = \frac{5}{2} \Rightarrow 5 \div 2 = 2\frac{1}{2} \]

10 Be able to divide a number line into halves, quarters, and thirds.