Mr. G.'s Math Marvels

Handout #19

Equivalent fractions are created when the numerator and denominator of a fraction are multiplied by the same number. $\frac{1}{3} \times \frac{5}{5} = \frac{5}{15}$

Write the first three equivalent fractions for each of the following:

$\frac{1}{3}$ = _____, _____, _____ $\frac{3}{4}$ = _____, _____, _____

$\frac{3}{7}$ = _____, _____, _____ $\frac{5}{6}$ = _____, _____, _____

$\frac{2}{5}$ = _____, _____, _____ $\frac{2}{9}$ = _____, _____, _____

Place equal (=) or not equal (≠) in the brackets {} to create a true statement. Use cross multiplication to discover if the fractions are equivalent.

$\frac{1}{3}$ { } $\frac{2}{6}$ $\frac{2}{5}$ { } $\frac{7}{15}$ $\frac{1}{7}$ { } $\frac{4}{28}$ $\frac{10}{12}$ { } $\frac{2}{3}$

$\frac{1}{8}$ { } $\frac{2}{16}$ $\frac{3}{4}$ { } $\frac{5}{6}$ $\frac{2}{9}$ { } $\frac{3}{6}$ $\frac{5}{5}$ { } $\frac{4}{4}$

Fill in the missing numerator or denominator to create an equivalent fraction.

$\frac{3}{4} = \frac{\quad}{12}$ $\frac{2}{7} = \frac{6}{\quad}$ $\frac{5}{9} = \frac{\quad}{27}$ $\frac{\quad}{3} = \frac{10}{15}$

Write the next two fractions in the sequence. Explain how you obtained your answer. What is the rule?

$\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}$ _____, _____

$\frac{2}{15}, \frac{4}{15}, \frac{6}{15}, \frac{8}{15}$ _____, _____

$\frac{9}{11}, \frac{8}{11}, \frac{7}{11}, \frac{6}{11}$, _____, _____

$3\frac{1}{8}, 4\frac{2}{8}, 5\frac{3}{8}, 6\frac{4}{8}$, _____, _____