MathFLIX CHALLENGE

Simplification of Prime and Relatively Prime Fractions

Part I

If the numerator and the denominator are both prime numbers, the fraction is in its simplest form. *Review the fractions below and circle the simplified fraction in each pair.*

$\frac{2}{3}$ $\frac{2}{6}$	$\frac{5}{7}$ $\frac{9}{11}$	$\frac{2}{5}$ $\frac{5}{20}$	$\frac{11}{22}$ $\frac{11}{13}$
$\frac{7}{11}$ $\frac{7}{14}$	$\frac{7}{21}$ $\frac{7}{13}$	$\frac{11}{22}$ $\frac{11}{17}$	$\frac{13}{19}$ $\frac{13}{26}$

Part II

A fraction with a prime number and a composite number may be relatively prime if the numbers have no common factors. If a fraction is relatively prime, it is simplified. *Review the fractions below and circle the simplified fraction in each pair.*

$\frac{3}{4}$ $\frac{3}{6}$	$\frac{2}{10}$ $\frac{2}{9}$	$\frac{2}{4}$ $\frac{4}{5}$	$\frac{5}{25}$ $\frac{5}{12}$
$\frac{7}{10}$ $\frac{7}{21}$	$\frac{7}{14}$ $\frac{14}{23}$	$\frac{18}{19}$ $\frac{18}{20}$	$\frac{13}{20}$ $\frac{13}{26}$
$\frac{5}{10}$ $\frac{5}{8}$	$\frac{2}{9}$ $\frac{2}{8}$	$\frac{3}{6}$ $\frac{6}{11}$	$\frac{3}{10}$ $\frac{5}{10}$

Part III

A fraction with two composite numbers may be relatively prime if the numerator and the denominator have no common factors. If a fraction is relatively prime, it is simplified. *Review the fractions below and circle the simplified fraction in each pair.*

$\frac{14}{15}$ $\frac{9}{15}$	$\frac{6}{9}$ $\frac{4}{9}$	$\frac{8}{9}$ $\frac{9}{12}$	$\frac{4}{15}$ $\frac{4}{8}$
$\frac{10}{21}$ $\frac{9}{21}$	$\frac{8}{15}$ $\frac{8}{16}$	$\frac{20}{21}$ $\frac{15}{21}$	$\frac{14}{16}$ $\frac{16}{21}$
$\frac{5}{25}$ $\frac{4}{25}$	$\frac{12}{15}$ $\frac{14}{15}$	$\frac{8}{12}$ $\frac{8}{21}$	$\frac{9}{16}$ $\frac{8}{16}$