

Classification of Students' Interpretations of Size of Fractions

Larger Numerator Chosen

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3}$	$\frac{3}{4}$
$\frac{4}{6}$	$\frac{2}{3}$
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$	$\frac{3}{4}$
$\frac{3}{5}$	$\frac{2}{5}$
$\frac{1}{3}$? $\frac{1}{4}$
$\frac{3}{5}$? $\frac{3}{4}$
$\frac{1}{6}$	$\frac{2}{12}$
$\frac{7}{8}$	$\frac{11}{12}$

Smaller Numerator Chosen

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3}$	$\frac{3}{4}$
$\frac{4}{6}$	$\frac{2}{3}$
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$	$\frac{3}{4}$
$\frac{3}{5}$	$\frac{2}{5}$
$\frac{1}{3}$? $\frac{1}{4}$
$\frac{3}{5}$? $\frac{3}{4}$
$\frac{1}{6}$	$\frac{2}{12}$
$\frac{7}{8}$	$\frac{11}{12}$

Classification of Students' Interpretations of Size of Fractions

Larger Denominator Chosen

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3}$	$\frac{3}{4}$
$\frac{4}{6}$	$\frac{2}{3}$
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$?	$\frac{3}{4}$
$\frac{3}{5}$?	$\frac{2}{5}$
$\frac{1}{3}$		$\frac{1}{4}$
$\frac{3}{5}$		$\frac{3}{4}$
$\frac{1}{6}$		$\frac{2}{12}$
$\frac{7}{8}$		$\frac{11}{12}$

Smaller Denominator Chosen

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3}$	$\frac{3}{4}$
$\frac{4}{6}$	$\frac{2}{3}$
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$?	$\frac{3}{4}$
$\frac{3}{5}$?	$\frac{2}{5}$
$\frac{1}{3}$		$\frac{1}{4}$
$\frac{3}{5}$		$\frac{3}{4}$
$\frac{1}{6}$		$\frac{2}{12}$
$\frac{7}{8}$		$\frac{11}{12}$

Classification of Students' Interpretations of Size of Fractions

Larger Sum or Product Chosen

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3}$	$\frac{3}{4}$
$\frac{4}{6}$	$\frac{2}{3}$
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$	$\frac{3}{4}$
$\frac{3}{5}$	$\frac{2}{5}$
$\frac{1}{3}$	$\frac{1}{4}$
$\frac{3}{5}$	$\frac{3}{4}$
$\frac{1}{6}$	$\frac{2}{12}$
$\frac{7}{8}$	$\frac{11}{12}$

Smaller Sum or Product Chosen

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3}$	$\frac{3}{4}$
$\frac{4}{6}$	$\frac{2}{3}$
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$	$\frac{3}{4}$
$\frac{3}{5}$	$\frac{2}{5}$
$\frac{1}{3}$	$\frac{1}{4}$
$\frac{3}{5}$	$\frac{3}{4}$
$\frac{1}{6}$	$\frac{2}{12}$
$\frac{7}{8}$	$\frac{11}{12}$

Classification of Students' Interpretations of Size of Fractions

Smaller Gap Chosen (Bigger gap is reverse)

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3} = \frac{3}{4}$	
$\frac{4}{6}$	$\frac{2}{3}$
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$	$\frac{3}{4}$
$\frac{3}{5}$	$\frac{2}{5}$
$\frac{1}{3}$	$\frac{1}{4}$
$\frac{3}{5}$	$\frac{3}{4}$
$\frac{1}{6}$	$\frac{2}{12}$
$\frac{7}{8} = \frac{11}{12}$	

Correct Answers (✓)

$\frac{5}{8}$	$\frac{1}{3}$
$\frac{2}{3}$	$\frac{3}{4}$
$\frac{4}{6} = \frac{2}{3}$	
$\frac{4}{5}$	$\frac{3}{8}$
$\frac{5}{7}$	$\frac{3}{8}$
$\frac{3}{10}$	$\frac{2}{5}$

$\frac{1}{4}$	$\frac{3}{4}$
$\frac{3}{5}$	$\frac{2}{5}$
$\frac{1}{3}$	$\frac{1}{4}$
$\frac{3}{5}$	$\frac{3}{4}$
$\frac{1}{6} = \frac{2}{12}$	
$\frac{7}{8}$	$\frac{11}{12}$