Equivalent Fractions Practice

Name: _____ Date: _____

Question 1

Determine if the fractions are equivalent (=) or not equivalent (≠)

I. $\frac{8}{12} \square \frac{1}{1.5}$

II. $\frac{42}{7.5} \square \frac{54.23}{9.7}$

III. $\frac{2}{4} \square \frac{1}{2}$

IV. $\frac{9}{9} \square \frac{1}{1}$

V. $\frac{9.75}{25} \square \frac{87.75}{225}$

VI. $\frac{4}{18} \square \frac{18}{4}$

VII. $\frac{6\frac{1}{4}}{14\frac{7}{12}} \square \frac{3\frac{1}{2}}{8\frac{1}{6}}$

VIII. $\frac{9\frac{8}{9}}{17\frac{4}{5}} \square \frac{4\frac{1}{3}}{7\frac{4}{5}}$

Equivalent Fractions Practice

Question 2

Multiply the numerator and denominator of each fraction by 2 and then by 0.5 to form a set of three equivalent fractions

I. $\frac{1}{2}$

II. $\frac{11}{7}$

III. $\frac{10.7}{20.6}$

IV. $\frac{1}{6}$

Equivalent Fractions Practice

Name: **Key** Date: _____

Question 1

Determine if the fractions are equivalent (=) or not equivalent (≠)

I. $\frac{8}{12} = \frac{1}{1.5}$

$12 \cdot 1 = 12$ $\frac{8}{12} \times \frac{1}{1.5}$ $8 \cdot 1.5 = 12$

II. $\frac{42}{7.5} \neq \frac{54.23}{9.7}$

$54.23 \cdot 7.5 = 406.725$ $\frac{42}{7.5} \times \frac{54.23}{9.7}$ $42 \cdot 9.7 = 407.4$

III. $\frac{2}{4} = \frac{1}{2}$

$1 \cdot 4 = 4$ $\frac{2}{4} \times \frac{1}{2}$ $2 \cdot 2 = 4$

IV. $\frac{9}{9} = \frac{1}{1}$

$1 \cdot 9 = 9$ $\frac{9}{9} \times \frac{1}{1}$ $9 \cdot 1 = 9$

V. $\frac{9.75}{25} = \frac{87.75}{225}$

$87.75 \cdot 25 = 2{,}193.75$ $\frac{9.75}{25} \times \frac{87.75}{225}$ $9.75 \cdot 225 = 2{,}193.75$

VI. $\frac{4}{18} \neq \frac{18}{4}$

$18 \cdot 18 = 324$ $\frac{4}{18} \times \frac{18}{4}$ $4 \cdot 4 = 16$

VII. $\frac{6\frac{1}{4}}{14\frac{7}{12}} = \frac{3\frac{1}{2}}{8\frac{1}{6}}$

$3\frac{1}{2} \cdot 14\frac{7}{12}$ $\frac{6\frac{1}{4}}{14\frac{7}{12}} \times \frac{3\frac{1}{2}}{8\frac{1}{6}}$ $6\frac{1}{4} \cdot 8\frac{1}{6}$

$\frac{7}{2} \cdot \frac{175}{12} = \frac{1{,}225}{24}$ $\frac{25}{4} \cdot \frac{49}{6} = \frac{1{,}225}{24}$

VIII. $\frac{9\frac{8}{9}}{17\frac{4}{5}} = \frac{4\frac{1}{3}}{7\frac{4}{5}}$

$4\frac{1}{3} \cdot 17\frac{4}{5}$ $\frac{9\frac{8}{9}}{17\frac{4}{5}} \times \frac{4\frac{1}{3}}{7\frac{4}{5}}$ $9\frac{8}{9} \cdot 7\frac{4}{5}$

$\frac{13}{3} \cdot \frac{89}{5} = \frac{1{,}157}{15}$ $\frac{89}{9} \cdot \frac{39}{5} = \frac{3{,}471}{45}$

simplify

$\frac{3{,}471 \div 3}{45 \div 3} = \frac{1{,}157}{15}$

Equivalent Fractions Practice

Question 2

Multiply the numerator and denominator of each fraction by 2 and then by 0.5 to form a set of three equivalent fractions

I. $\frac{1}{2} = \frac{2}{4} = \frac{0.5}{1}$

$\frac{1}{2} \cdot \frac{2}{2} = \frac{2}{4}$

$\frac{1}{2} \cdot \frac{0.5}{0.5} = \frac{0.5}{1}$

II. $\frac{11}{7} = \frac{22}{14} = \frac{5.5}{3.5}$

$\frac{11}{7} \cdot \frac{2}{2} = \frac{22}{14}$

$\frac{11}{7} \cdot \frac{0.5}{0.5} = \frac{5.5}{3.5}$

III. $\frac{10.7}{20.6} = \frac{21.4}{41.2} = \frac{5.35}{10.3}$

$\frac{10.7}{20.6} \cdot \frac{2}{2} = \frac{21.4}{41.2}$

$\frac{10.7}{20.6} \cdot \frac{0.5}{0.5} = \frac{5.35}{10.3}$

IV. $\frac{1}{6} = \frac{2}{12} = \frac{0.5}{3}$

$\frac{1}{6} \cdot \frac{2}{2} = \frac{2}{12}$

$\frac{1}{6} \cdot \frac{0.5}{0.5} = \frac{0.5}{3}$