M8 - 6.1 - Simplification WS

Simplify the following fractions

$\frac{2}{4}=$ $\frac{3}{6}=$ $\frac{4}{8}=$ $\frac{3}{9}=$ $\frac{2}{6}=$ $\frac{2}{8}=$

$\frac{3}{12}=$ $\frac{2}{16}=$ $\frac{2}{10}=$ $\frac{8}{16}=$ $\frac{7}{14}=$ $\frac{2}{14}=$

$\frac{6}{8}=$ $\frac{4}{16}=$ $\frac{9}{12}=$ $\frac{9}{21}=$ $\frac{16}{16}=$ $\frac{4}{12}=$

$\frac{4}{2}=$ $\frac{9}{3}=$ $\frac{15}{5}=$ $\frac{18}{9}=$ $\frac{16}{8}=$ $\frac{16}{4}=$

$\frac{12}{24}=$ $\frac{15}{45}=$ $\frac{16}{64}=$ $\frac{13}{65}=$ $\frac{10}{40}=$ $\frac{15}{90}=$

$\frac{4}{12}=$ $\frac{5}{25}=$ $\frac{6}{30}=$ $\frac{7}{42}=$ $\frac{5}{40}=$ $\frac{12}{48}=$

Simplify the following fractions

$\frac{6}{4}=$ $\frac{15}{10}=$ $\frac{18}{4}=$ $\frac{14}{8}=$ $\frac{12}{8}=$ $\frac{15}{6}=$

$\frac{24}{10}=$ $\frac{54}{10}=$ $\frac{20}{12}=$ $\frac{42}{14}=$ $\frac{22}{8}=$ $\frac{52}{10}=$

$\frac{24}{18}=$ $\frac{44}{33}=$ $\frac{56}{12}=$ $\frac{32}{6}=$ $\frac{56}{18}=$ $\frac{28}{21}=$

M8 - 6.1 - Expansion WS

Multiply the top and bottom by 2

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

Multiply the top and bottom by 3

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

Multiply the top and bottom by 4

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

Multiply the top and bottom by 5

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

Change to a denominator of 12

$\frac{1}{2} =$ $\frac{1}{3} =$ $\frac{3}{4} =$ $\frac{2}{3} =$ $\frac{1}{6} =$ $\frac{1}{4} =$

Multiply the top and bottom by 30

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

Expand the following fractions by any factor.

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

$\frac{2}{3} =$ $\frac{1}{9} =$ $\frac{7}{8} =$ $\frac{3}{10} =$ $\frac{1}{7} =$

M8 - 6.2 - Multiplying WS

Multiply the following fractions.

$\frac{2}{3} \times \frac{4}{5} =$

$\frac{1}{7} \times \frac{3}{10} =$

$\frac{1}{5} \times \frac{6}{7} =$

$\frac{2}{7} \times \frac{4}{5} =$

$\frac{1}{3} \times \frac{5}{8} =$

$\frac{2}{9} \times \frac{4}{5} =$

$\frac{3}{7} \times \frac{1}{2} =$

$\frac{7}{2} \times \frac{1}{5} =$

$\frac{1}{5} \times 4 =$

$\frac{1}{3} \times \frac{2}{3} =$

$\frac{1}{3} \times \frac{4}{7} =$

$\frac{8}{9} \times \frac{2}{1} =$

$\frac{2}{3} \times \frac{4}{5} =$

$\frac{2}{7} \times \frac{2}{3} =$

$\frac{3}{5} \times \frac{2}{7} =$

$\frac{1}{3} \times \frac{2}{3} =$

$\frac{3}{8} \times \frac{3}{2} =$

$3 \times \frac{2}{7} =$

$\frac{1}{2} \times \frac{1}{3} =$

$\frac{1}{3} \times \frac{1}{2} =$

$\frac{1}{4} \times \frac{1}{3} =$

$\frac{2}{3} \times \frac{1}{3} =$

$\frac{3}{5} \times \frac{7}{8} =$

$\frac{3}{5} \times \frac{1}{2} =$

$\frac{2}{7} \times \frac{3}{1} =$

$2 \times \frac{1}{3} =$

$\frac{1}{4} \times 3 =$

Multiply then simplify if necessary, or simplify first then multiply.

$\frac{2}{5} \times \frac{1}{2} =$

$\frac{3}{7} \times \frac{7}{2} =$

$\frac{3}{5} \times 5 =$

$\frac{1}{3} \times 3^3 =$

$\frac{6}{7} \times \frac{2}{3} =$

$\frac{1}{8} \times \frac{4}{7} =$

$\frac{1}{3} \times 3^2 =$

$4 \times \frac{3}{16} =$

$\frac{1}{3} \times \frac{9}{11} =$

$\frac{2}{5} \times \frac{25}{27} =$

$\frac{7}{2} \times \frac{4}{21} =$

$\frac{2}{8} \times \frac{3}{6} =$

M8 - 6.2 - Dividing Fractions WS

Divide the following fractions.

$\frac{1}{2} \div \frac{4}{7} =$

$\frac{2}{7} \div \frac{3}{5} =$

$\frac{1}{2} \div \frac{2}{3} =$

$\frac{3}{10} \div \frac{1}{3} =$

$\frac{1}{3} \div \frac{1}{2} =$

$\frac{3}{7} \div \frac{1}{2} =$

$\frac{1}{5} \div \frac{2}{3} =$

$\frac{5}{7} \div \frac{4}{5} =$

$\frac{1}{2} \div \frac{4}{7} =$

$\frac{2}{11} \div \frac{1}{3} =$

$\frac{1}{5} \div \frac{1}{2} =$

$\frac{2}{7} \div \frac{3}{5} =$

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

$\frac{3}{5} \div 4$

$0 \div \frac{1}{2} =$

$\frac{1}{2} \div 0 =$

$\frac{1}{7} \div \frac{1}{3} \div \frac{5}{2} =$

$\frac{5}{\left(\frac{1}{3}\right)} =$

$\frac{\left(\frac{2}{3}\right)}{5} =$

$\frac{\left(\frac{2}{5}\right)}{\left(\frac{3}{4}\right)}$

Divide the following fractions then simplify.

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

$\frac{1}{3} \div \frac{1}{6} =$

$\frac{9}{14} \div 3 =$

$\frac{6}{7} \div 3 =$

$\frac{4}{5} \div 4 =$

$\frac{10}{11} \div 5 =$

$2 \div \frac{5}{4} =$

$7 \div \frac{5}{6} =$

$\frac{2}{5} \div \frac{3}{10}$

M8 - 6.3 - Improper to Mixed Fractions WS

Convert from an improper fraction to a mixed number

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

$\frac{3}{2} =$ $\frac{19}{3} =$ $\frac{15}{2} =$ $\frac{15}{4} =$

$\frac{23}{6} =$ $\frac{23}{5} =$ $\frac{21}{4} =$ $\frac{19}{6} =$

$\frac{27}{2} =$ $\frac{17}{3} =$ $\frac{27}{5} =$ $\frac{35}{4} =$

$\frac{37}{7} =$ $\frac{33}{5} =$ $\frac{69}{8} =$ $\frac{46}{7} =$

$\frac{58}{7} =$ $\frac{41}{6} =$ $\frac{6}{3} =$

$\frac{43}{14} =$ $\frac{31}{13} =$ $\frac{137}{10} =$ $\frac{35}{16} =$

$\frac{91}{12} =$ $\frac{41}{11} =$ $\frac{65}{12} =$ $\frac{49}{17} =$

$\frac{71}{15} =$ $\frac{100}{9} =$ $\frac{8}{6} =$ $\frac{10}{6} =$

$\frac{6}{4} =$ $\frac{10}{4} =$

M8 - 6.3 - Mixed to Improper Fractions

Convert from a mixed number to an improper fraction

$2\frac{1}{2}$ $3\frac{1}{3} =$ $2\frac{1}{3} =$ $4\frac{4}{5} =$

$3\frac{3}{5} =$ $5\frac{1}{2} =$ $3\frac{2}{5} =$ $5\frac{1}{4} =$

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

$2\frac{3}{4} =$ $12\frac{2}{3} =$ $6\frac{5}{9} =$ $4\frac{2}{5} =$

$7\frac{3}{4} =$ $1\frac{19}{20} =$ $6\frac{1}{7} =$ $5\frac{3}{5} =$

$9\frac{3}{7} =$ $5\frac{3}{11} =$ $7\frac{5}{7} =$ $13\frac{4}{9} =$

$12\frac{7}{13} =$ $8\frac{2}{17} =$ $4\frac{7}{25} =$

M8 - 6.4 - Adding Fractions WS

Add the following fractions

$\frac{1}{3}+\frac{1}{3}=$ $\frac{1}{4}+\frac{1}{4}=$ $\frac{2}{7}+\frac{3}{7}=$ $\frac{1}{5}+\frac{2}{5}=$

$\frac{1}{4}+\frac{2}{4}=$ $\frac{1}{5}+\frac{3}{5}=$ $\frac{1}{7}+\frac{2}{7}=$ $\frac{1}{9}+\frac{4}{9}=$

Add the following fractions by finding the LCD

$\frac{1}{2}+\frac{1}{3}=$ $\frac{1}{2}+\frac{2}{5}=$ $\frac{3}{5}+\frac{1}{4}=$

$\frac{1}{5}+\frac{5}{7}=$ $\frac{1}{4}+\frac{2}{7}=$ $\frac{1}{3}+\frac{1}{5}=$

Add the following fractions by finding the LCD

$\frac{1}{2}+\frac{1}{4}=$ $\frac{1}{3}+\frac{2}{9}=$ $\frac{15}{24}+\frac{1}{3}=$

$\frac{2}{5}+\frac{2}{15}=$ $\frac{1}{7}+\frac{3}{14}=$ $\frac{4}{7}+\frac{4}{35}=$

Add the following fractions by finding the LCD

$\frac{1}{6}+\frac{4}{9}=$ $\frac{5}{12}+\frac{3}{8}=$

Add the following fractions by finding the LCD. Don't forget to simplify

$\frac{1}{2}+\frac{1}{2}=$ $\frac{1}{3}+\frac{4}{6}=$ $\frac{1}{2}+\frac{1}{6}=$

$\frac{1}{3}+\frac{1}{6}=$ $\frac{2}{15}+\frac{5}{12}=$

Add the following fractions by finding the LCD. Don't forget to simplify or change to a mixed number.

$\frac{3}{8}+\frac{2}{3}=$ $5+\frac{1}{4}=$ $\frac{1}{3}+1=$

$\frac{1}{3}+\frac{4}{5}=$ $\frac{3}{5}+\frac{4}{6}=$ $\frac{4}{6}+\frac{3}{4}=$

$\frac{12}{24}+\frac{11}{12}=$ $\frac{8}{4}+\frac{4}{4}=$ $\frac{2}{1}+\frac{3}{4}=$

$\frac{1}{4}+\frac{2}{5}=$ $\frac{4}{12}+\frac{12}{2}=$

M8 - 6.4 - Subtracting Fractions WS

Subtract the following fractions

$\frac{2}{3}-\frac{1}{3}=$ $\frac{3}{5}-\frac{1}{5}=$ $\frac{5}{7}-\frac{2}{7}=$ $\frac{5}{9}-\frac{3}{9}=$

Subtract the following fractions by finding the LCD

$\frac{1}{2}-\frac{1}{3}=$ $\frac{1}{2}-\frac{2}{5}=$ $\frac{4}{5}-\frac{1}{3}=$

$\frac{5}{7}-\frac{1}{5}=$ $\frac{2}{3}-\frac{3}{8}=$

Subtract the following fractions by finding the LCD

$\frac{1}{3}-\frac{2}{9}=$ $\frac{1}{3}-\frac{1}{6}=$ $\frac{15}{24}-\frac{1}{3}=$

Subtract the following fractions by finding the LCD, then simplify

$\frac{1}{2}-\frac{1}{6}=$ $\frac{11}{12}-\frac{12}{24}=$ $\frac{5}{18}-\frac{2}{9}=$

Subtract the following fractions then simplify, or simplify first.

$\frac{3}{4}-\frac{1}{4}=$ $\frac{4}{12}-\frac{1}{6}=$ $\frac{4}{6}-\frac{1}{3}=$

$\frac{3}{7}-\frac{6}{21}=$ $\frac{2}{3}-\frac{3}{9}=$

Subtract the following fractions by finding the LCD, change to a mixed number.

$5-\frac{1}{4}=$ $3-\frac{1}{3}=$ $6-\frac{1}{2}=$

Subtract the following fractions then simplify

$\frac{3}{2}-\frac{1}{2}=$ $\frac{8}{4}-\frac{4}{4}=$ $\frac{1}{2}-\frac{1}{2}=$

$\frac{1}{2}-\frac{2}{4}=$ $\frac{2}{4}-\frac{4}{8}=$ $\frac{17}{34}-\frac{1}{2}=$

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