

# M8 - 6.1 - Simplification HW

*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 HW

**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.**

$\frac{1}{2} =$

$\frac{1}{3} =$

$\frac{1}{4} =$

$\frac{1}{5} =$

$\frac{1}{6} =$

$\frac{2}{3} =$

$\frac{1}{9} =$

$\frac{7}{8} =$

$\frac{3}{10} =$

$\frac{1}{7} =$