

# 1.0 - Fractions Review WORKSHEET

Name: Key  
Date: \_\_\_\_\_

\*Show all work and circle answer\*

1. Reduce (put into lowest terms) if possible.

a)  $\frac{3}{6} \div \frac{3}{3}$     b)  $\frac{16}{20} \div \frac{4}{4}$     c)  $\frac{3}{4}$     d)  $\frac{21}{49} \div \frac{7}{7}$     e)  $\frac{15}{9} \div \frac{3}{3}$     f)  $\frac{-6}{30} \div \frac{6}{6}$     g)  $\frac{1}{8}$     h)  $\frac{30}{75} \div \frac{15}{15}$

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

2. Add or subtract and then reduce (if necessary).

a)  $\frac{2}{3} - \frac{1}{3}$     b)  $\frac{3}{4} + \frac{1}{4}$     c)  $\frac{1}{10} + \frac{2}{5} \times 2$     d)  $\frac{5}{8} - \frac{1}{4} \times 2$     e)  $\frac{-5}{6} + \frac{2}{3} \times 2$     f)  $\frac{3^3}{8 \times 3} + \frac{1}{3} \times \frac{8}{8}$     g)  $\frac{4^3}{5 \times 3} - \frac{2}{3} \times 5$

$\frac{1}{3}$      $\frac{4}{4} = 1$      $\frac{1}{10} + \frac{4}{10}$      $\frac{5}{8} - \frac{2}{8}$      $\frac{-5}{6} + \frac{4}{6}$      $\frac{9}{24} + \frac{8}{24}$      $\frac{12}{15} - \frac{10}{15}$

$\frac{5}{10}$      $\frac{3}{8}$      $\frac{-1}{6}$      $\frac{17}{24}$      $\frac{2}{15}$

$\frac{1}{2}$

3. Multiply and then reduce (if necessary).

a)  $\frac{1}{6} \times \frac{4}{5}$     b)  $\frac{4}{39} \times \frac{-3}{4}$     c)  $\frac{3}{8} \times \frac{3}{1}$     d)  $\frac{-2}{5} \times \frac{3}{2}$     e)  $\frac{5}{-2} \times \frac{1}{-3}$     f)  $\frac{6}{5} \times \frac{3}{2}$

$\frac{4}{30} \div 2$      $\frac{-12}{36} \div 12$      $\frac{9}{8}$      $\frac{-6}{10} \div 2$      $\frac{5}{6}$      $\frac{18}{10} \div 2$

$\frac{2}{15}$      $\frac{-1}{3}$      $\frac{-3}{5}$      $\frac{5}{6}$      $\frac{9}{5}$

4. Divide and then reduce (if necessary).

a)  $\frac{1}{3} \times \frac{15}{2}$     b)  $\frac{9}{10} \times \frac{-15}{2}$     c)  $\frac{-2}{1} \times \frac{45}{5}$     d)  $\frac{4}{5} \times \frac{25}{3}$     e)  $\frac{11}{14} \times \frac{15}{6}$

$\frac{1}{3} \times \frac{2}{1}$      $\frac{9}{10} \times \frac{-2}{1}$      $\frac{-2}{1} \times \frac{5}{4}$      $\frac{4}{5} \times \frac{3}{2}$      $\frac{1}{4} \times \frac{6}{1}$

$\frac{2}{3}$      $\frac{-18}{10} \div 2$      $\frac{-10}{4} \div 2$      $\frac{12}{10} \div 2$      $\frac{6}{4} \div 2$

$\frac{-9}{5}$      $\frac{-5}{2}$      $\frac{6}{5}$      $\frac{3}{2}$

5. Solving with Cross Multiplication (need 1 fraction = 1 fraction). Decimal answers possible.

a)  $\frac{6}{5} \times \frac{x}{10}$     b)  $\frac{1}{12} \times \frac{16}{x}$     c)  $\frac{1760}{1} \times \frac{y}{6.4}$     d)  $\frac{3.28}{1} \times \frac{6}{x}$

$6 \times 10$      $1x = 12 \times 16$      $1y = 1760 \times 6.4$      $3.28x = \frac{6}{3.28}$

$\frac{60}{3} = \frac{5x}{3}$      $x = 192$      $y = 11264$      $\frac{6}{3.28}$

$x = 12$      $x = 1.83$