

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) $\frac{3.28}{1} \times \frac{6}{x}$
- 6×10 $1x = 12 \times 16$ $1y = 1760 \times 6.4$ $3.28x = \frac{6}{3.28}$
- $\frac{60}{3} = \frac{5x}{3}$ $x = 192$ $y = 11264$ $\frac{6}{3.28}$
- $x = 12$ $x = 1.83$