

Fraction Skills Review

① Reduce

$$\frac{15}{25} \begin{matrix} \div 5 \\ \div 5 \end{matrix} = \frac{3}{5}$$

$$15 \boxed{abc} 25 =$$

② Add / Subtract

$$\begin{aligned} \text{a) } \frac{3}{5} + \frac{1}{10} \\ = \frac{6}{10} + \frac{1}{10} \\ = \frac{7}{10} \end{aligned}$$

$$\begin{aligned} \text{b) } \frac{5}{6} - \frac{1}{4} \\ = \frac{10}{12} - \frac{3}{12} \\ = \frac{7}{12} \end{aligned}$$

③ Multiply / Divide

$$\begin{aligned} \text{a) } \frac{3}{4} \times \frac{2}{9} \\ = \frac{6}{36} \\ = \frac{1}{6} \end{aligned}$$

$$\text{or } \frac{3}{4} \times \frac{2}{9} = \frac{1}{6}$$

$$\begin{aligned} \text{b) } \frac{8}{15} \div \frac{2}{5} \\ = \frac{8}{15} \times \frac{5}{2} \\ = \frac{40}{30} \\ = \frac{4}{3} \end{aligned}$$

$$\left\{ \begin{array}{l} \frac{4}{3} \text{ Improper} \\ = 1 \frac{1}{3} \text{ Mixed} \\ 2 \frac{2}{5} = \frac{12}{5} \end{array} \right.$$

Algebra Review - Like Terms

Like terms have the same variables to the same exponents.

Like

$2x$ and $3x$

$2y^2$ and $-y^2$

7 and -5

$2x^2y^3z$ and $5y^3zx^2$

Not Like

x^2 and $3x$

$5x$ and 8

Ex Collect like terms and simplify:

$$\begin{aligned}
 & \underline{x^2} - \underline{3x} + \underline{5} - \underline{2x^2} + \underline{5x} - \underline{1} \\
 & = 1x^2 - 2x^2 - 3x + 5x + 5 - 1 \\
 & = -x^2 + 2x + 4
 \end{aligned}$$

Practice
pg. 462 #1, 2
pg. 471 #2, 4