

Notes for Fractions and Decimals

Fractions

- *Addition & Subtraction:* Get a common denominator first.

Example: $\frac{4}{5} - \frac{2}{7}$

Solution: $\frac{4 \cdot 7}{5 \cdot 7} - \frac{2 \cdot 5}{7 \cdot 5} \rightarrow \frac{28}{35} - \frac{10}{35} \rightarrow \left(\frac{18}{35}\right)$

- *Multiplication:* Try first to cross cancel, then multiply denominators and numerators.

Example: $\frac{6}{25} \cdot \frac{7}{8}$

Solution: $\overset{3}{\cancel{6}} \cdot \frac{7}{\cancel{8}_4} \rightarrow \left(\frac{21}{100}\right)$

- *Division:* Flip the second one and then multiply the two fractions.

Example: $\frac{4}{15} \div \frac{12}{25}$

Solution: $\frac{4}{15} \cdot \frac{25}{12} \rightarrow \frac{\overset{1}{\cancel{4}}}{\underset{3}{\cancel{15}}} \cdot \frac{\overset{5}{\cancel{25}}}{\cancel{12}_3} \rightarrow \left(\frac{5}{9}\right)$