Fractions

Objective: To be confident doing arithmetic with fractions.

Recap of Previous Material:

1. Express both parts of $1 : 5$ as fractions.
2. Express both parts of $7 : 11$ as fractions.
3. Write $\frac{5}{9}$ as a ratio.
4. Write $\frac{14}{57}$ as a ratio.

Warm-up:

1. $\frac{1}{5} + \frac{1}{5} =$
2. $\frac{4}{7} + \frac{2}{7} =$
3. $\frac{3}{9} - \frac{1}{9} =$
4. $\frac{12}{4} - \frac{1}{4} =$
5. $\frac{1}{3} \times \frac{1}{2} =$
6. $\frac{2}{3} \times \frac{5}{4} =$

Theory — Adding and Subtracting Fractions:

$\frac{1}{12} + \frac{3}{4} =$

$\frac{7}{6} + \frac{4}{15} =$

$\frac{8}{9} - \frac{1}{3} =$

$\frac{5}{12} - \frac{9}{10} =$

Practice:

1. $\frac{1}{3} + \frac{12}{21} =$
2. $\frac{7}{6} + \frac{2}{11} =$
3. $\frac{4}{9} - \frac{2}{3} =$
4. $\frac{13}{16} - \frac{29}{40} =$

Theory — Multiplying and Dividing Fractions:

$\frac{1}{2} \times \frac{5}{4} =$

$\frac{2}{7} \times \frac{11}{13} =$

$1 \div \frac{2}{3} =$

$\frac{3}{4} \div \frac{7}{2} =$

Practice:

1. $\frac{6}{17} \times \frac{1}{3} =$
2. $\frac{5}{12} \times \frac{4}{9} =$
3. $\frac{1}{8} \times \frac{6}{19} =$
4. $\frac{3}{7} \div \frac{1}{8} =$
5. $\frac{3}{8} \div \frac{16}{25} =$
6. $\frac{5}{9} \div \frac{11}{6} =$