3.5 Adding & Subtracting Like Fractions

Adding Like Fractions:

To add fractions with like denominators, add the numerators.

Subtracting Like Fractions:

To subtract fractions with like denominators, subtract the numerators.

Remember: The denominators cannot be zero. You can never divide by zero.

Solve each equation. Write each solution in simplest form.

$$\frac{5}{7} + \frac{8}{7} = r$$

$$\frac{5+8}{7} = \boxed{\frac{13}{7} = r}$$

Solve each equation. Write each solution in simplest form.

$$\frac{21}{5} + \frac{19}{5} = r$$

$$\frac{21+19}{5} = \frac{40 \div 5}{5 \div 5} = \frac{8}{1} = 8 = r$$

Solve each equation. Write each solution in simplest form.

$$\frac{17}{20} - \frac{2}{20} = g$$

$$\frac{17-2}{20} = \frac{15 \div 5}{20 \div 5} = \frac{3}{4} = g$$

Solve each equation. Write each solution in simplest form.

$$\frac{4}{9} - \frac{15}{9} = r$$

$$\frac{4+-15}{9} = \frac{-11}{9} = r$$

Solve each equation. Write each solution in simplest form.

$$\frac{42}{16} + \frac{12}{16} = j$$

$$\frac{42+12}{16} = \frac{54}{16} \overset{\div 2}{\underset{\div 2}{}} = \frac{27}{8} = j$$

Solve each equation. Write each solution in simplest form.

$$n = \frac{25}{19} + \frac{13}{19}$$

$$\frac{25+13}{19} = \frac{38}{19} \begin{matrix} \div 19 \\ \div 19 \end{matrix} = \frac{2}{1} = 2 = n$$

Solve each equation. Write each solution in simplest form.

$$\frac{18}{26} + \frac{-15}{26} = m$$

$$\frac{18+-15}{26} = \frac{3}{26} = m$$

Solve each equation. Write each solution in simplest form.

$$\frac{56}{32} - \frac{16}{32} = s$$

$$\frac{56-16}{32} = \frac{40 \div 2}{32 \div 2} = \frac{20 \div 4}{16 \div 4} = \frac{5}{4} = s$$