

M\$5 Classwork 3
More Practice with
Operations with Rational Expressions
Simplifying Complex Fractions
Solving Fractional Equations

Do these problems on a separate sheet of paper.

1) Solve: $\frac{x}{x-2} + \frac{x+2}{x} = 2$

2) Solve: $\frac{12}{x^2-16} - \frac{24}{x-4} = 3$

3) Solve: $1 - \frac{6}{t^2} = \frac{1}{t}$

4) Combine and simplify: $\frac{2}{x} - \frac{x}{4-x} + \frac{2x+8}{x^2-4x}$

5) Solve: $x - \frac{15}{x+3} = \frac{5x}{x+3}$

6) Simplify: $\frac{\frac{5}{x} - \frac{x}{5}}{1 + \frac{8}{x} + \frac{15}{x^2}}$

7) Solve: $\frac{4n+3}{n-6} + \frac{n-4}{6-n} = \frac{44}{2n-12}$

8) Simplify: $\frac{3x^2-6x}{9x^2} \div \frac{3x^2-4x-4}{4-9x^2}$

9) Combine and simplify: $\frac{y}{y-1} + \frac{y}{2} - \frac{y+1}{2y-2}$

10) Solve: $\frac{4n+3}{n-6} + \frac{n-4}{6-n} = \frac{44}{2n-12}$

11) Simplify: $\frac{\frac{p}{p-1} + \frac{p}{p+1}}{\frac{p}{p+1}}$

12) Express a in simplest radical form: $\frac{2}{a^2-7a+10} = \frac{3}{a-5} - \frac{a}{a-2}$