Complex Fractions

When you have a fraction over another fraction it's called a complex fraction. But all it really is, is a fraction being divided by (the "big" fraction bar) another fraction. First, do the top and then do the bottom. Once you have a single fraction on the top and bottom, you can flip and multiply.

Practice Complex Fraction Problems:

Order of Operations with Mixed Numbers

Nothing new to teach here as the students already know the order of operations and know how to do everything with mixed numbers/fractions. This just allows them to put all their skills together to solve one problem.

Practice Mixed Number Order of Operation problems:

•
$$(2\frac{1}{3})^2 + 1\frac{10}{74}(3\frac{5}{8} - 2\frac{1}{12}) - \sqrt{7\frac{1}{9}}$$
 $\frac{163}{36}$
• $\sqrt{5\frac{1}{16}}(2\frac{7}{18} + 1\frac{1}{27}) \div (4\frac{1}{6} - 2\frac{2}{9})$ $\frac{111}{28}$
• $\sqrt[3]{3\frac{3}{8}} + (1\frac{1}{3})^3 - 2\frac{4}{5}(3\frac{2}{28} - 2\frac{5}{21})$ $\frac{83}{54}$
• $1\frac{58}{144} \div (4\frac{5}{12} - 1\frac{11}{18}) + \sqrt[3]{4\frac{12}{125}} + 2\frac{4}{15}$ $\frac{131}{30}$

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Teaching Notes For Homework #12

Word Problems with Mixed Numbers

Practice Mixed Number Word Problems:

- We are all going to eat pizza. I bought us $6\frac{3}{8}$ pizzas. Eight of us are going to share the pizzas equally. How much pizza will each person get?
- Anna wants to make some dresses. She bought $4\frac{1}{8}$ yards of fabric. Each dress needs $\frac{3}{8}$ yards of fabric. How many dresses can she make?