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## 6.6 Notes and Questions: Applying Fractional Operations

## Order of Operations:

The order of operations for <u>fractions</u> is the same as for <u>decimals</u> and <u>whole numbers</u>

 Brackets
 Exponents (Squares + Roots)
 Division and multiplication are equally important. Do these from left to right.
 Addition and subtraction are equally important. Do these from left to right.

Calculate:



$$= 2\frac{1}{4} \times \left(1\frac{3}{4} + 1\frac{1}{4}\right)$$
  
=  $\frac{9}{4} \times \left(\frac{7}{4} + \frac{5}{4}\right)$   
=  $\frac{9}{4} \times \frac{12}{4}$   
=  $\frac{27}{4}$ 

- Do only set of steps per line
- ② Convertall mixed # to improper.
- Recopy each
   Inne.
   Only adding
   subtracting
   need a
   common
   denominator

$$= \frac{4}{5} + \frac{3}{8} \times \frac{8}{42}$$

$$= \frac{4}{5} + \frac{1}{2} \times \frac{8}{42}$$

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

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

$$= \frac{13}{10} + \frac{5}{10}$$

$$= \frac{13}{10} + \frac{5}{10}$$

$$= \frac{13}{10} + \frac{5}{10}$$

$$= \frac{2}{7} (\frac{1}{3} + \frac{3}{4}) =$$

$$= \frac{2}{7} (\frac{4}{12} + \frac{9}{12})$$

$$= \frac{2}{7} (\frac{4}{12} + \frac{9}{12})$$

$$= \frac{1}{7} \times (\frac{13}{12})$$

$$= \frac{13}{42}$$

$$= \frac{13}{42}$$

$$= \frac{13}{42}$$

$$= \frac{13}{10} + \frac{13}{10}$$

$$= \frac{2}{7} + \frac{13}{10} + \frac{13}{10}$$

$$= \frac{13}{10} + \frac{13}{10}$$

$$= \frac{13}{10} + \frac{13}{10} + \frac{13}{10}$$

$$= \frac{13}{10} + \frac$$



Amar is planting a garden to grow his own vegetables and fruit. Three quarters of his garden is made up of vegetables. The rest of his garden is for fruit. One third of the garden for fruit is used to grow strawberries. What fraction of the garden is used to grow strawberries?

## Summary of Fraction Operations

Multiplying or dividing a Fraction by a Whole Number is like multiplying fractions because:

When multiplying complete fractions:

To multiply mixed numbers you need to: \_\_\_\_\_\_

To divide complete fractions:\_\_\_\_\_

To divide mixed numbers: \_\_\_\_\_