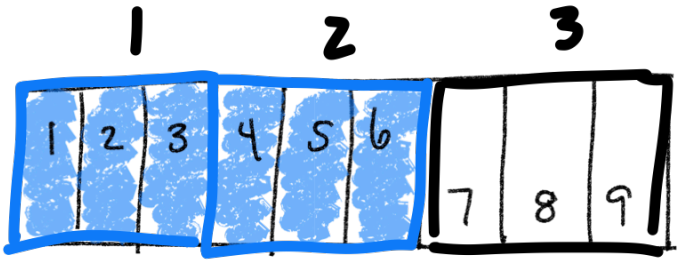
T-MF Math Fundamentals Week 10 11/12

Fractions = $\frac{\text{part}}{\text{whole}}$ = $\frac{\text{numerator}}{\text{denominator}}$

= $\frac{3}{8}$ shaded / whole

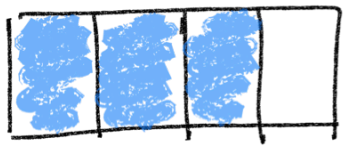


= $\frac{6}{9}$

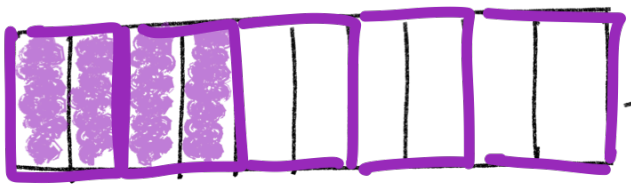
Most reduced form

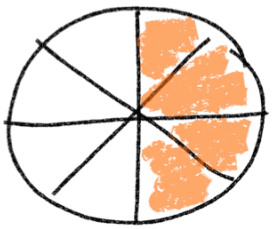
$\frac{6 \div 3}{9 \div 3} = \boxed{\frac{2}{3}}$

5 = $\frac{5}{0}$ ← undefined

1.)  $\boxed{\frac{3}{4}}$

2.) $\frac{6 \div 2}{8 \div 2} \boxed{\frac{3}{4}}$

3.)  $\frac{4 \div 2}{10 \div 2} \boxed{\frac{2}{5}}$

4.)  $\frac{4 \div 2}{8 \div 2} = \frac{2 \div 2}{4 \div 2} \boxed{\frac{1}{2}}$

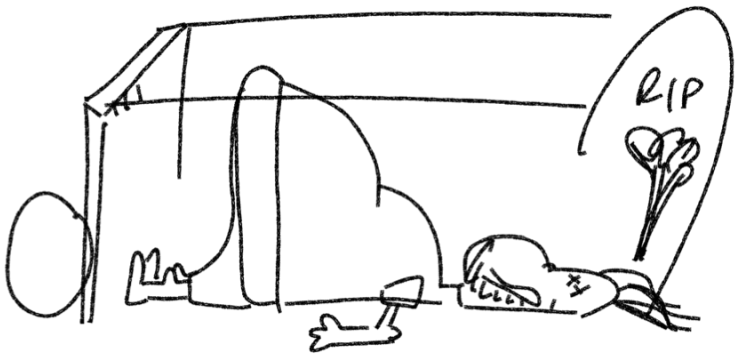
$\frac{4 \div 4}{8 \div 4} = \frac{1}{2}$

Improper Fractions "Top Heavy"

Improper fraction → mixed number

$\frac{15}{4}$

$\frac{15}{4}$ → $4\overline{)15}$ RIP



$4\overline{)15}$

-12

3

$3\frac{3}{4}$

$\frac{13}{2}$

$2\overline{)13}$

-12

1

6

$6\frac{1}{2}$

Convert each improper fraction to a mixed number.

1.) $\frac{14}{5}$

$$\begin{array}{r} 2 \\ 5\overline{)14} \\ -10 \\ \hline 4 \end{array} \qquad \boxed{2\frac{4}{5}}$$

2.) $\frac{61}{9}$

$$\begin{array}{r} 6 \\ 9\overline{)61} \\ -54 \\ \hline 7 \end{array} \qquad \boxed{6\frac{7}{9}}$$

3.) $\frac{51}{10}$

$$\begin{array}{r} 5 \\ 10\overline{)51} \\ -50 \\ \hline 1 \end{array} \qquad \boxed{5\frac{1}{10}}$$

4.) $\frac{41}{5}$

$$\begin{array}{r} 8 \\ 5\overline{)41} \\ -40 \\ \hline 1 \end{array} \qquad \boxed{8\frac{1}{5}}$$

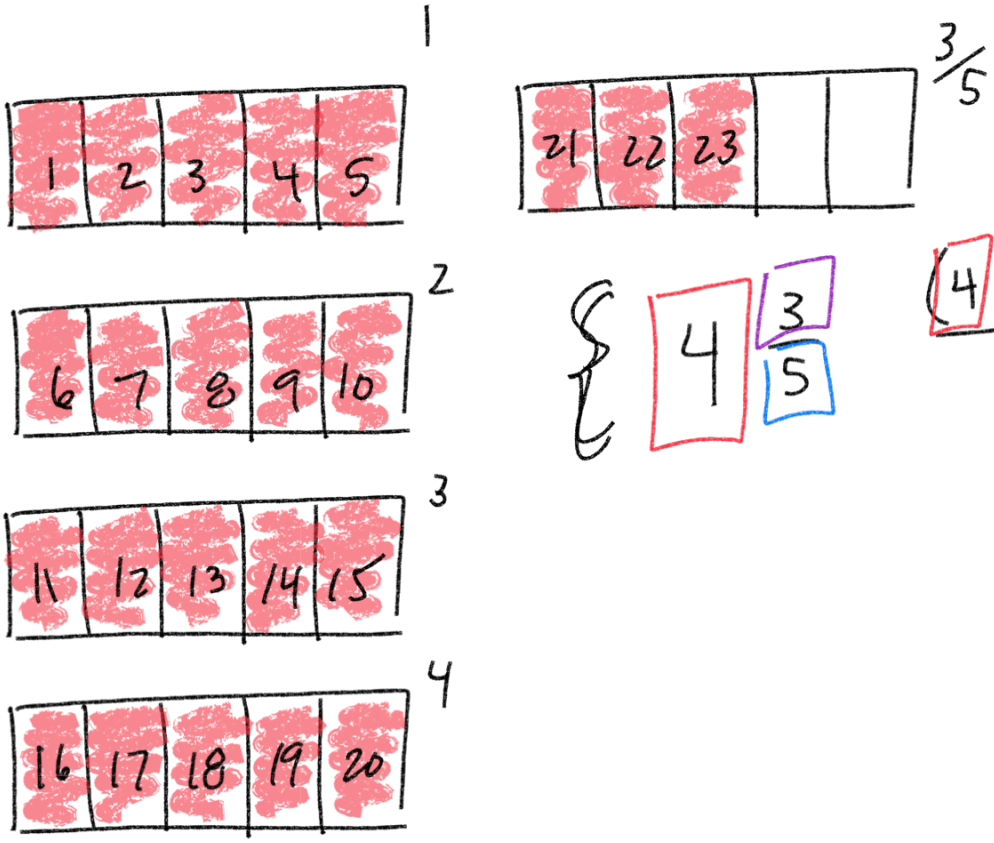
This school year, Nate has received 78 speeding tickets. In the state of North Carolina, every 9 citations results in a class B felony. What mixed number represents the number of <u>driving</u> <u>related</u> felonies Nate has committed so far this year?

$\frac{78}{9}$

$$\begin{array}{r} 8 \\ 9\overline{)78} \\ -72 \\ \hline 6 \end{array} \qquad 8\frac{6 \div 3}{9 \div 3} \qquad \boxed{8\frac{2}{3}}$$

mixed number ⟶ improper fractim

$4\frac{3}{5}$ $\qquad\qquad$ $\frac{23}{5}$



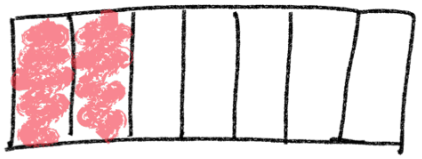
$4\frac{3}{5}$ $\qquad$ $\frac{(4*5)+3}{5}$

$\frac{20+3}{5} = \boxed{\frac{23}{5}}$

$6\frac{1}{7} = \frac{(6*7)+1}{7} = \frac{42+1}{7} = \boxed{\frac{43}{7}}$

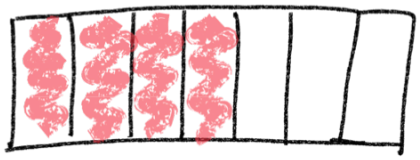
$7\frac{2}{3} = \frac{(7*3)+2}{3} = \frac{21+2}{3} = \boxed{\frac{23}{3}}$

$$\frac{2}{7} + \frac{4}{7} = \frac{6}{7}$$



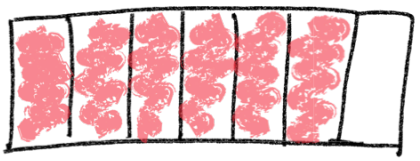
$\frac{2}{7}$

$$\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$$



$\frac{4}{7}$

+



$\frac{6}{7}$

$$\frac{8}{9} - \frac{2}{9} = \frac{6}{9} \overset{\div 3}{\underset{\div 3}{}} = \boxed{\frac{2}{3}}$$

1.) $\frac{1}{6} + \frac{3}{6} = \frac{4}{6} \overset{\div 2}{\underset{\div 2}{}} = \boxed{\frac{2}{3}}$

2.) $\frac{7}{8} - \frac{3}{8} = \frac{4}{8} \overset{\div 4}{\underset{\div 4}{}} = \boxed{\frac{1}{2}}$

3.) $\frac{5}{8} + \frac{7}{8} = \frac{12}{8}$

$$8\overline{)12} \quad 1 \quad -8 \quad 4$$

$1\frac{4}{8} \overset{\div 4}{\underset{\div 4}{}} = \boxed{1\frac{1}{2}}$

4.) $\frac{3}{4} + \frac{2}{4} = \frac{5}{4} = \boxed{1\frac{1}{4}}$

$$4\overline{)5} \quad 1 \quad -4 \quad 1$$