Letter Carriers

The letters A, C, F, I, N, O, R, S, and T stand for the numerals 1 through 9, but not in the same order. X stands for 0, and C stands for 4.

A. \[
\begin{array}{c}
A \\ C \\
\hline
F \\
\hline
R = F \\
C &= R \\
\end{array}
\]

B. \[
\begin{array}{c}
T \\ R \\
\hline
I = F \\
T &= R \\
\end{array}
\]

C. \[
\begin{array}{c}
O \\ N \\
\hline
A \\
N &= F \\
C &= R \\
\end{array}
\]

D. \[
\begin{array}{c}
S \\
FX \\
\hline
C \\
FX &= F \\
\hline
T = FX &= F \\
I &= A \\
\end{array}
\]

E. \[
\begin{array}{c}
T \\
A \\
\hline
I = F \\
R &= F \\
A &= I \\
\end{array}
\]

F. \[
\begin{array}{c}
N \\
S \\
\hline
T \\
S &= A \\
\end{array}
\]

1. Work with a partner to find the value of each letter.

A = _______  C = _______  F = _______

I = _______  N = _______  O = _______

R = _______  S = _______  T = _______

2. If you just looked at this without figuring out any of the problems, what would be your guess for the value of F? Why?

____________________________________________________________________________________

____________________________________________________________________________________

3. If all the numerators are smaller than all the denominators, what is the largest answer you could have for any of the problems?

____________________________________________________________________________________

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The letters A, C, F, I, N, O, R, S, and T stand for the numerals 1 through 9, but not in the same order. X stands for 0, and C stands for 4.

A. \[ \frac{A}{C} = \frac{2}{4} = \frac{1}{2} \]  
B. \[ \frac{T}{R} = \frac{3}{6} = \frac{1}{2} \]  
C. \[ \frac{O}{N} = \frac{4}{8} = \frac{1}{2} \]  

D. \[ \frac{S}{F} = \frac{5}{10} = \frac{1}{2} \]  
E. \[ \frac{T}{A} = \frac{2}{6} = \frac{1}{3} \]  
F. \[ \frac{N}{S} = \frac{3}{9} = \frac{1}{3} \]

1. Work with a partner to find the value of each letter.

   A = 3  
   C = 4  
   F = 1  

   I = 6  
   N = 8  
   O = 7  

   R = 2  
   S = 9  
   T = 5

2. If you just looked at this without figuring out any of the problems, what would be your guess for the value of F? Why?

   **F = 1 because it is the simplified answer for all the problems.**

3. If all the numerators are smaller than all the denominators, what is the largest answer you could have for any of the problems?

   \[ \frac{8}{10} - \left( \frac{4}{5} \right), \text{ which is obtained by subtracting the smallest fraction } \frac{1}{10} \text{ from the largest fraction } \frac{9}{10}. \]