From Fractions to Decimals

Name:_____

Marilyn, Paul, and Monica are studying for a math exam.

Marilyn says, "the decimal representation of $^3/_8$ is smaller than the decimal representation of $^{30}/_{80}$ because 3 is smaller than 30 and 8 is smaller than 80."

Paul disagrees, "the decimal representation of $^3/_8$ is larger than $^{30}/_{80}$ because 3 is closer to 8 than 30 to 80. So, $^3/_8$ makes a larger proportion."

But Monica shakes her head saying, "both of you are wrong. I think that $^3/_8$ has the same decimal representation as $^{30}/_{80}$."

1. Who do you think is correct? Explain why.

2. Convert $^3/_8$ and $^{30}/_{80}$ into decimals. Show every step of your calculation.