e-Notebook

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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.
 Convert ³/₈ and ³⁰/₈₀ into decimals. Show every step of your calculation.