



Modeling Fish

- Every year, you stock the lake with 250 trout.

$$(\text{fish} + 250) = (\text{fish next year})$$

- After that, fishermen catch $2/5^{\text{ths}}$ of the trout (and so $3/5^{\text{ths}}$ are left).

$$(\text{fish} + 250) * (3/5) = (\text{fish next year})$$

- What is the equilibrium level?



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- If you wanted to graph this, what would you do?
- Which variable is the x? Which is the y?
- What are the range and domain of this equation? Why?