

# Five Star-Algebraic Connections

Math Investigation:

Dan and Nick want to buy their mother a birthday present next month. Dan has been saving dimes and Nick has been saving nickels. Dan has saved 18 dimes and Nick has saved 22 nickels. The brothers agree to take a coin out of their wallet each day and put it in a piggy bank for their mother's birthday present. One day, when they looked into each other's wallets, they saw that Nick had more money than Dan. When this happened, how many days had they been saving for their mother's gift?

Pictures



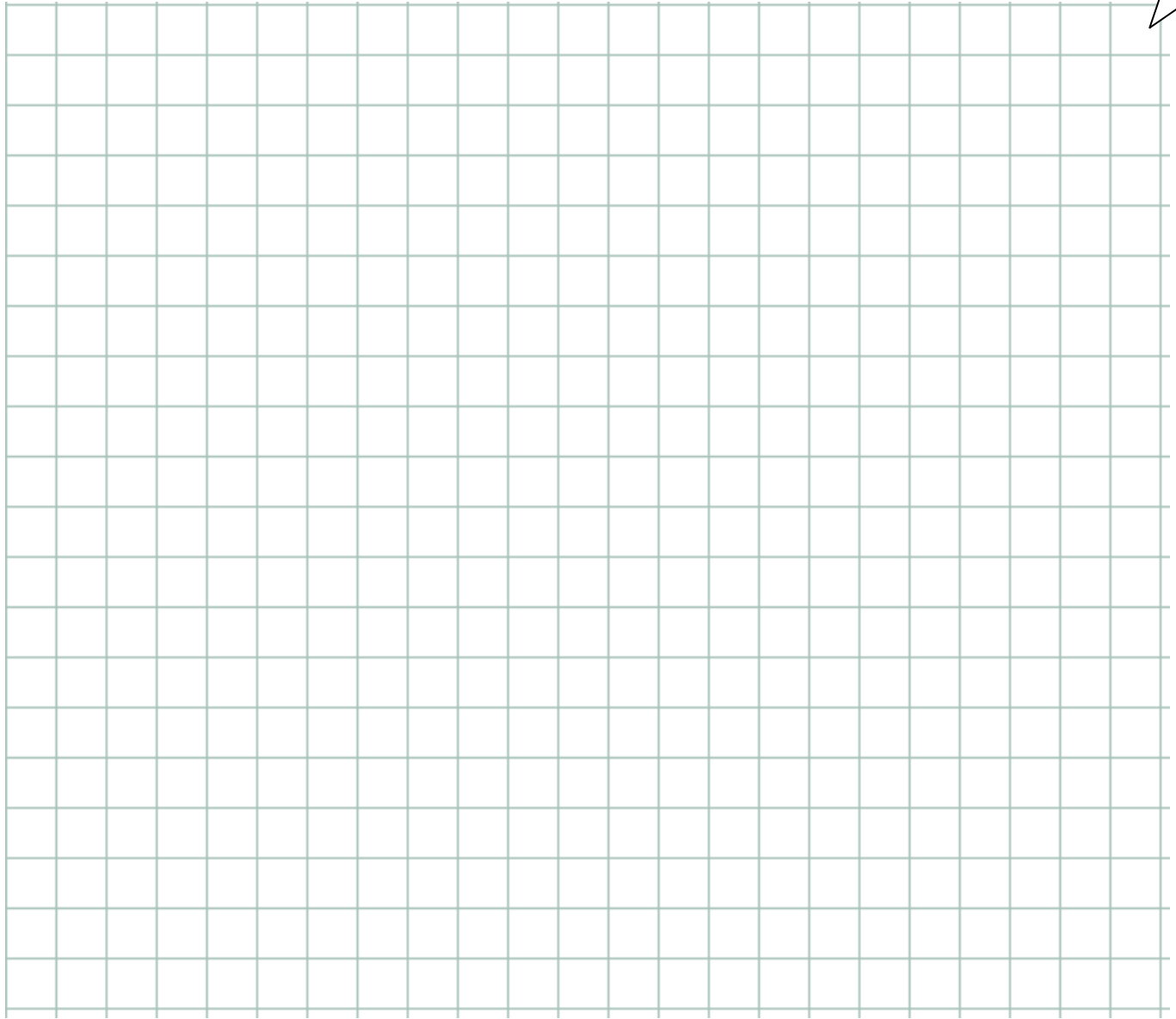
Numbers



Table



Graph



General Rule:



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