

Word Problem Practice Systems of Inequalities

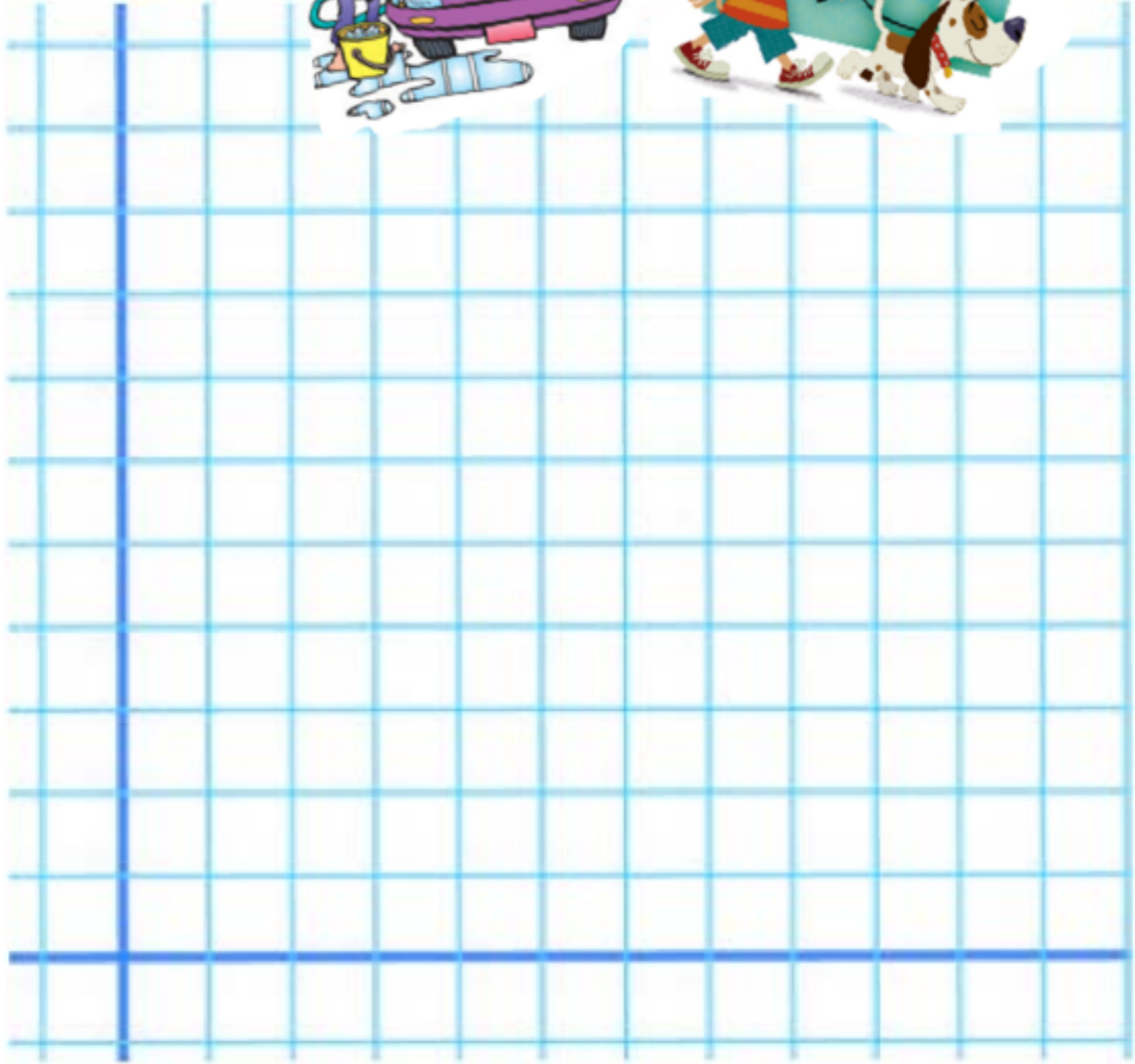


1. You can work at most 20 hours per week to cover your weekly expenses. Your dog-walking job pays \$6 per hour. Write a system of linear inequalities to represent the situation.

You need to earn at least \$92 to cover your weekly expenses. Your car wash attendant job pays \$1.50 per hour. Write a system of linear inequalities to represent the situation.

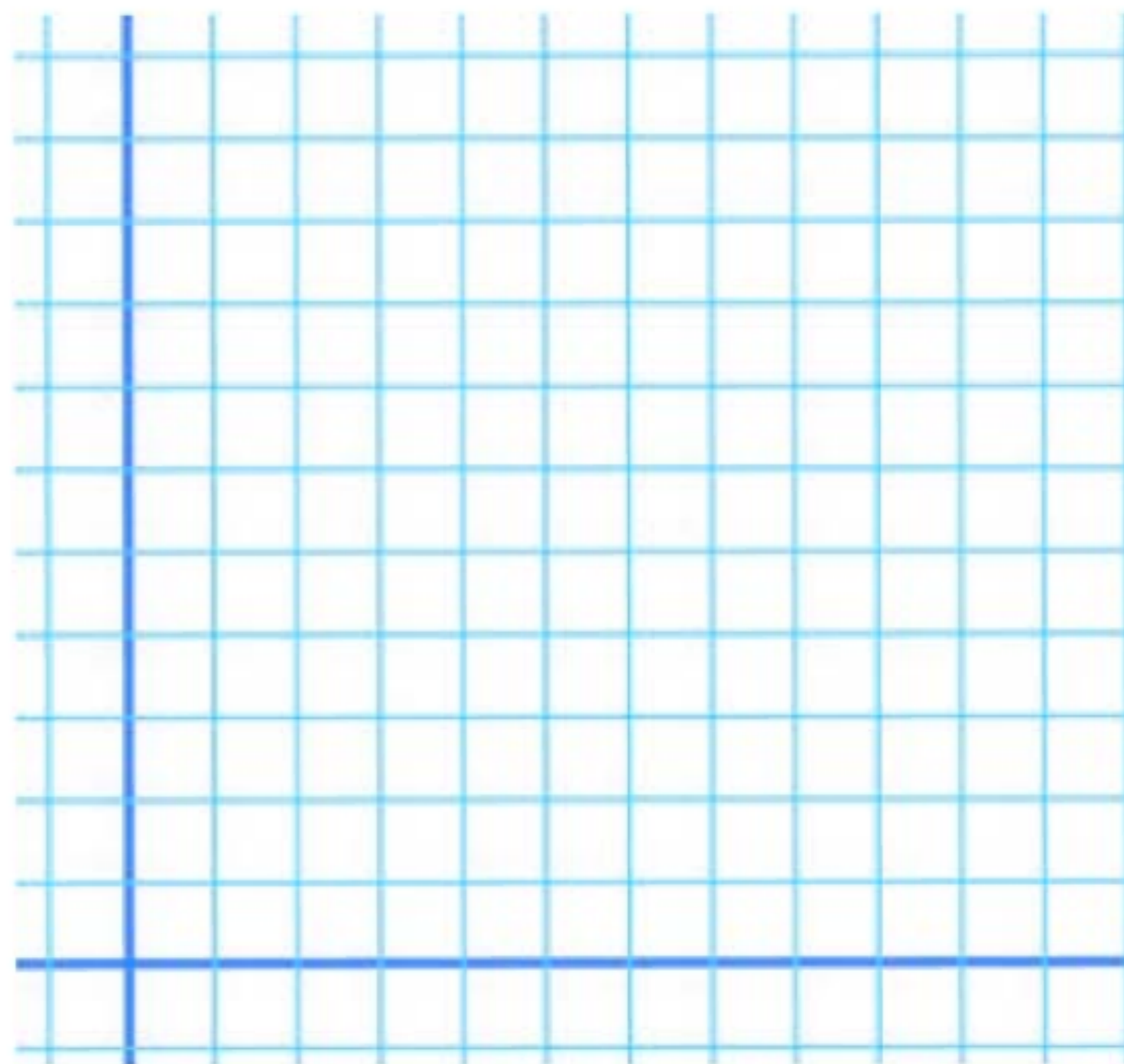


1. You can work at most 20 hours next week. You need to earn at least \$92 to cover you weekly expenses. Your dog- walking job pays \$7.50 per hour and your job as a car wash attendant pays \$6 per hour. Write a system of linear inequalities to model the situation.



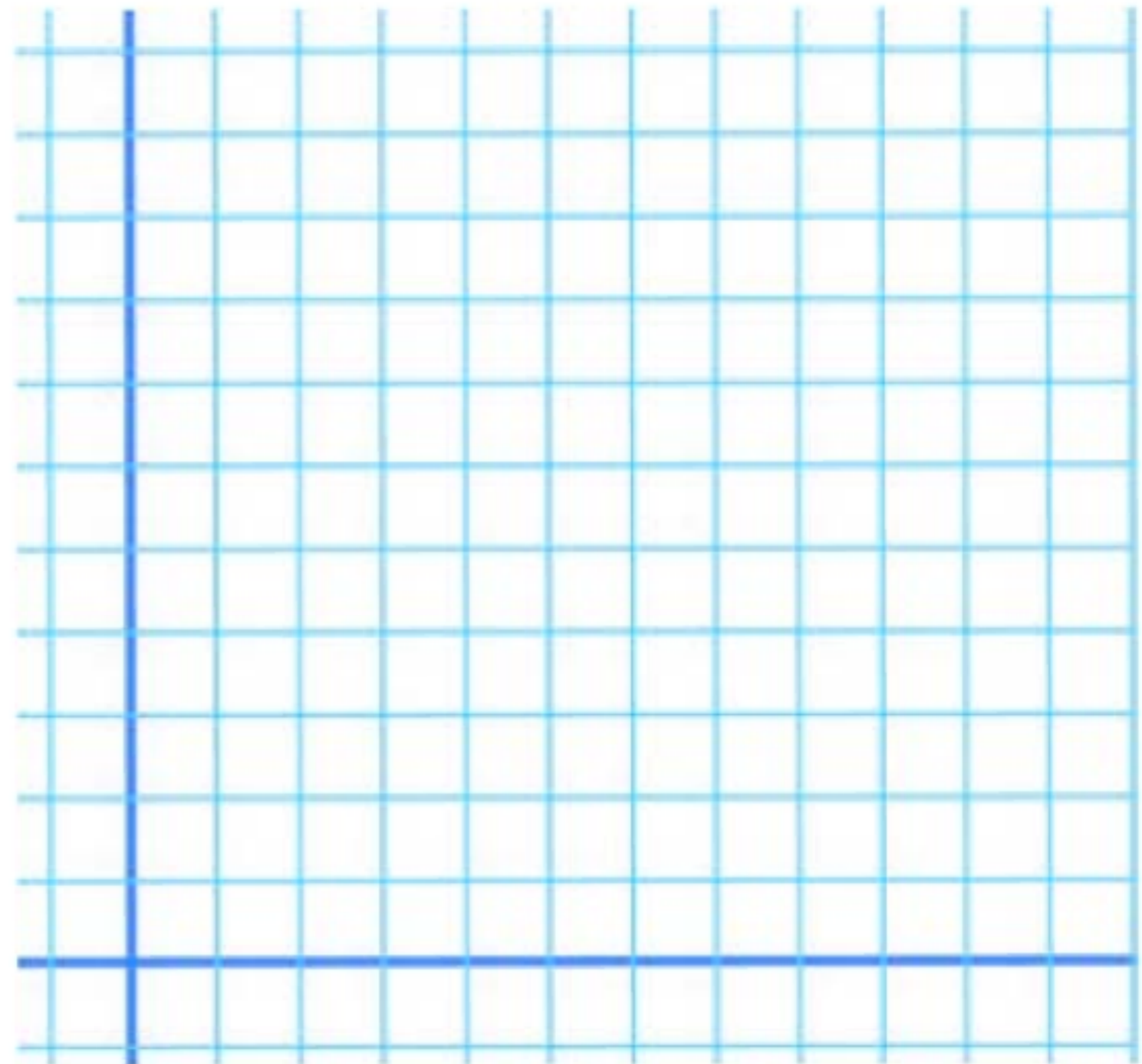


2. Marsha is buying plants and soil for her garden. The soil cost \$4 per bag, and the plants cost \$10 each. She wants to buy at least 5 plants and can spend no more than \$100. Write a system of linear inequalities to model the situation.



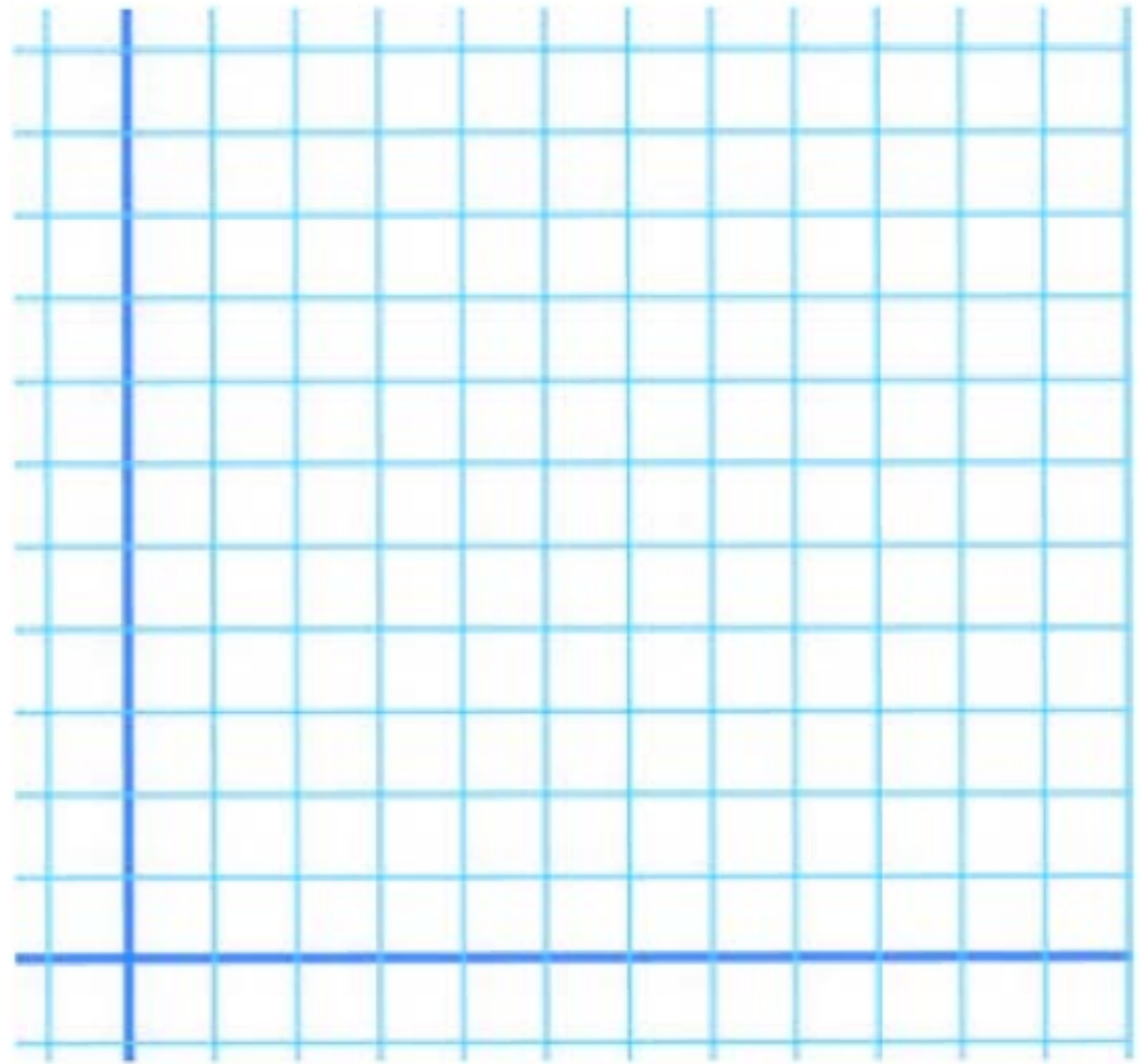


3. Jonah is going to the store to buy candles. Small candles cost \$3.50 and large candles cost \$5.00. He needs to buy at least 20 candles, and he cannot spend more than \$80. Write a system of linear inequalities that represent the situation.

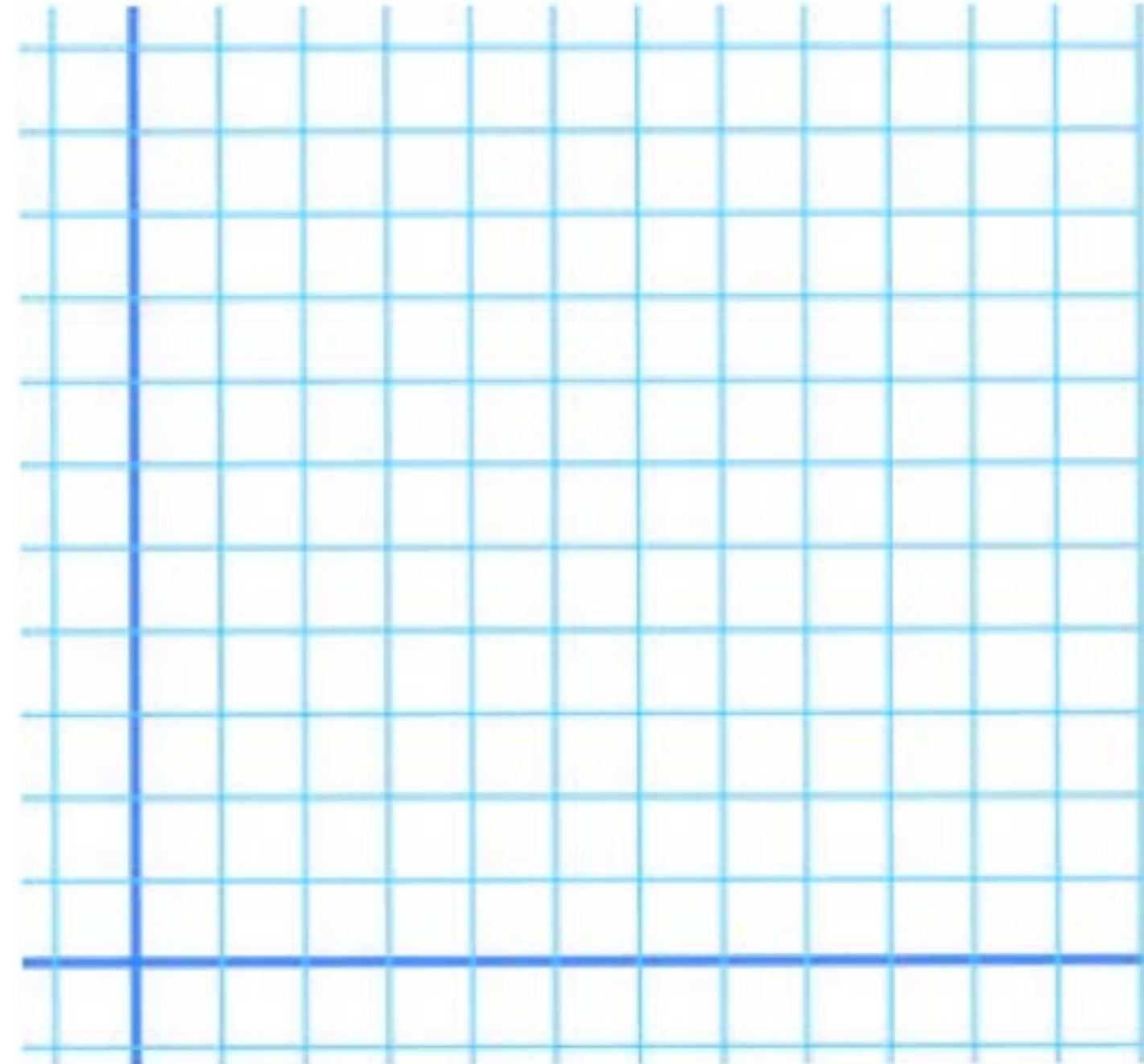


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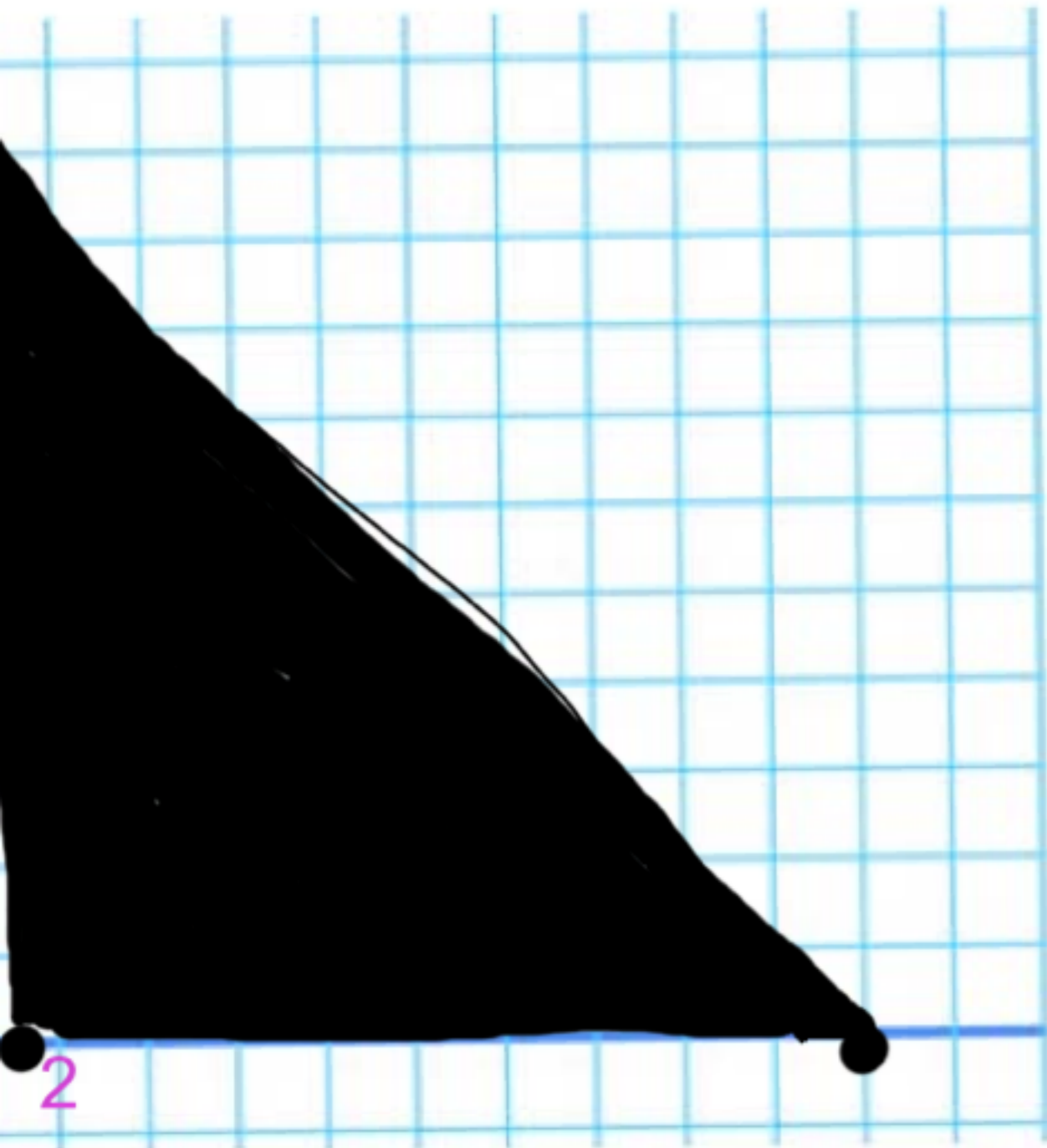
You want to learn Chinese. You have to complete 10 reading tests and listening tests within 3 hours today. It will take you 30 minutes to complete a reading test and 10 minutes to complete a listening test. Write a system of inequalities to express this situation. What is the most possible number of reading tests you can complete and still meet the requirements?



Business Sandy makes \$2 profit on every cup of lemonade that she sells and \$1 on every cupcake that she sells. Sandy wants to sell at least 5 cups of lemonade and at least 5 cupcakes per day. She wants to earn at least \$25 per day. Show and describe all the possible combinations of lemonade and cupcakes that Sandy needs to sell to meet her goals. List two possible combinations.



Answer Key



hrs walking dogs

2

