

Lesson 8: Writing and Graphing Inequalities

Cool Down: A Box of Paper Clips

Andre looks at a box of paper clips. He says: "I think the number of paper clips in the box is less than 1,000."

Lin also looks at the box. She says: "I think the number of paper clips in the box is more than 500."

1. Write an inequality to show Andre's statement, using p for the number of paper clips.
2. Write another inequality to show Lin's statement, also using p for the number of paper clips.
3. Do you think both Lin and Andre would agree that there could be 487 paperclips in the box? Explain your reasoning.
4. Do you think both Lin and Andre would agree that there could be 742 paperclips in the box? Explain your reasoning.