Insights project: Inquiry model Student name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_

Project name : Bag of Bigger numbers ^

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| Observations and doodles | |
| WarmUp_BagOfBiggerNumbers_brilliant_73_100.png  Ali and Zoe reach into a bag that they know contains nine lottery balls numbered 1-9. They each take one ball out to keep and they look at it secretly. Then, they make the following statements, in order:  **Ali:** "I don't know whose number is bigger."  **Zoe:** "I don't know whose number is bigger either."  **Ali:** "I still don't know whose number is bigger."  **Zoe:** "Now I know that my number is bigger!"  Assuming Ali and Zoe are perfectly logical, **what is Zoe's smallest possible number?** |  |
| Wrong answers and guesses (Goldilocks) | |
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| Solve + explain |
| (for your convenience, putting it again here)  **Ali:** "I don't know whose number is bigger."  **Zoe:** "I don't know whose number is bigger either."  **Ali:** "I still don't know whose number is bigger."  **Zoe:** "Now I know that my number is bigger!" |