

Exemplars

Name: _____

P/S	R/P	Com	Con	Rep	A/Level

Shh! It's a Secret Δ

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Ava makes up a number puzzle for Layla. Layla uses the clues to figure out the secret number.

Clues:

- The number has four digits and falls between 5,000 and 6,000 on the number line.
- All of the digits are the same.
- The number in the thousands place is ten times the number in the hundreds place.
- The number in the hundreds place is ten times the number in the tens place.
- The number in the tens place is ten times the number in the ones place.

Layla thinks the secret number is 5,555. Is Layla correct? Show all of your mathematical thinking.