

WARM – UP ACTIVITY

Captain Nova needs to access the **Starship Vault** before the meteor storm hits. The vault opens with a **4-digit code**. Each digit is from **0-9**, and **digits do not repeat**.

Use the **place-value clues** to crack the code.

CLUES

CLUE 1: 5 2 9 1

- **One digit is correct AND in the correct place value.**
- Hint: The correct digit is in either the **hundreds** or **ones** place.

CLUE 2: 8 0 4 6

- **Two digits are correct but BOTH are in the wrong place value.**
- Neither correct digit belongs in the **thousands** place.

CLUE 3: 3 7 1 8

- **One digit is correct but in the wrong place value.**
- The correct digit belongs in the **tens** place in the final code.

CLUE 4: 6 9 3 0

- **None of these digits appear in the code.**
- This eliminates all four digits from all place values.

CLUE 5: 4 8 2 7

- **One digit is correct AND in the correct place value.**
- The correct digit is in the **thousands** or **tens** place.

