Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

**10.4C “Which Lock is Better?”\_Classwork**

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| --- |
| Question:  You are buying a combination lock. You have three choices:   1. **Lock** **1** has 3 wheels. Each wheel is numbered from 0 to 9. 2. **Lock 2** has numbered from 0 to 39. Each combination uses 3 numbers. 3. **Lock 3** has 4 wheels. Wheel 1: 0 to 9, Wheel 2: A to J, Wheel 3: K to T, and Wheel 4: 0 to 9     Lock 1 Lock 2 Lock 3 |
| **CLAIM** (Which lock would you get?) |
| **EVIDENCE** (What work did you do to solve this problem?)   |  |  |  | | --- | --- | --- | | **Lock 1** | **Lock 2** | **Lock 3** | |  |  |  | |
| **REASONING** (Summarize in two to three sentences how you know you are correct.) |

