

# Exemplars

Name: \_\_\_\_\_

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

The Number Game  $\Delta$

## The Number Game

Jim is playing a number game. He has a list of clues to follow to be able to find a number. Jim can only use the clue or clues in each question so he must be careful not to use any other clues from the list. Can you help Jim answer these questions? Make sure to show all your mathematical thinking.

Clues:

- A. The number in the hundreds place is 20 times as large as the number in the tens place.
- B. The number in the tenths place is three-tenths as large as the number in the ones place.
- C. The number in the tens place is six-tenths as large as the number in the hundreds place.
- D. The number in the thousands place is forty times the number in the hundreds place.

Given the numbers: 631.3; 4,164; 422.3 and 4,115

1. Name one number that could represent clue A—and NOT clues B, C, or D?
2. Name one number that could represent both clues A and B—and NOT clues C or D?
3. Name one number that could represent clue D—and NOT clues A, B, or C?