

# Place Value & Number Systems

Name:

Date:

**INQUIRY**

China uses the same digits as us, but groups numbers in ten-thousands (wan) instead of thousands. Which system makes more sense?

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

Term	Definition
Place value	The value of a digit based on its position.
Digit	A single symbol: 0,1,2,3,4,5,6,7,8,9.

## Part A — Place Value

1. Write the value of the 5 in each number: (a) 52,340 (b) 305,812 (c) 1,500,000. [3 marks]

2. Write 3,847,265 in words. [2 marks]

Show your working:

3. Arrange in order from smallest: 34,521 | 35,412 | 34,251 | 35,142. [2 marks]

Show your working:

## Part B — Real-World Numbers

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4. Nanjing's population is approximately 9,420,000. Write this in words. How many wan (ten-thousands) is this? [3 marks]

5. Seoul's population: 9,736,027. Nanjing: 9,420,000. Berlin: 3,645,000. (a) Order largest to smallest. (b) Find the difference between Seoul and Berlin. [3 marks]

Show your working:

## Part C — Challenge

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6. The Great Wall of China is approximately 21,196 km. The DMZ border is 250 km. How many times longer is the Great Wall? [2 marks]