

Rounding & Estimation

Name:

Date:

INQUIRY

Nanjing's Zifeng Tower is 450 m tall. Is that exact or rounded? Does it matter?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Rounding	Replacing a number with a close approximate value.
Estimation	Finding a rough answer using rounded numbers.

Part A — Rounding

1. Round 3,847 to: (a) nearest 10 (b) nearest 100 (c) nearest 1000. [3 marks]

Show your working:

2. Round these to 1 decimal place: (a) 4.37 (b) 12.849 (c) 0.951. [3 marks]

Show your working:

Part B — Estimation

3. Estimate 48×21 by rounding both numbers to the nearest 10. [2 marks]

Show your working:

4. A school trip from Nanjing to Shanghai costs 287 yuan per student. There are 32 students. Estimate the total cost. [2 marks]

Show your working:

5. Korean BBQ costs 18,500 won per person. 7 friends are going. Estimate the total bill. [2 marks]

Show your working:

Part C — Application

6. A German news report says 'approximately 80 million people live in Germany.' Is this rounded? To what degree? Why don't they give an exact number? [3 marks]