

Number Sense — Full Revision

Name:

Date:

INQUIRY

Number sense is the foundation of all mathematics. This revision covers place value, rounding, BIDMAS, negatives, and factors.

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
BIDMAS	Order of operations.
HCF/LCM	Highest Common Factor / Lowest Common Multiple.
Prime	Only 2 factors: 1 and itself.
Integer	Whole number (positive, negative, or zero).

Section 1 — Place Value & Rounding (8 marks)

1. Write the value of the 7 in 2,370,415. [1 marks]

Show your working:

2. Round 14,857 to the nearest hundred. [1 marks]

Show your working:

3. Estimate 397×52 using rounding. [2 marks]

Show your working:

4. Seoul population: 9,736,027. Nanjing: 9,420,000. Round both to the nearest million. Find the difference. [2 marks]

Show your working:

5. Order: 456,789 | 465,789 | 456,798 | 465,798 from smallest. [2 marks]

Section 2 — BIDMAS (6 marks)

6. Calculate: $5 + 3 \times 4 - 2$. [1 marks]

Show your working:

7. Calculate: $(12 - 4)^2 / 2$. [2 marks]

Show your working:

8. Insert brackets: $8 + 2 \times 3 = 30$. [1 marks]

Show your working:

9. Nanjing taxi: base 11 + 2.4×8 km ride. Calculate total using BIDMAS. [2 marks]

Show your working:

Section 3 — Negative Numbers (6 marks)

10. Calculate: $-8 + 13$. [1 marks]

Show your working:

11. Calculate: $-4 - (-7)$. [2 marks]

Show your working:

12. Berlin temperature: -6°C at dawn, rises 14°C by afternoon. What's the afternoon temperature? [1 marks]

Show your working:

13. Order from coldest: $3C$, $-11C$, $-3C$, $0C$, $8C$, $-8C$. [2 marks]

Section 4 — Factors, Multiples & Primes (8 marks)

14. List all factors of 36. [2 marks]

15. Find the HCF of 24 and 36. [2 marks]

Show your working:

16. Find the LCM of 8 and 12. [2 marks]

Show your working:

17. Is 91 prime? Show how you checked. [2 marks]