Year 5 · Algebra: Balancing and Growing Patterns

Name: _____ Date: _____

Hi there! This sheet helps you compare numbers with <, >, and =, fill in the missing parts of number sentences, and continue growing patterns. Take your time and check your work!

Warm-up

1. Put the correct symbol (<, >, or =) between the numbers: 4,506 ☐ 4,560

2. Fill in the missing number: 25 + ☐ = 40

3. Is this true or false? 7 × 3 = 20 + 1

4. Continue this growing pattern for two more terms: 6, 10, 14, 18, ☐, ☐

Practice

5. Put the correct symbol (<, >, or =) between the two expressions: 2,456 + 3,120 ☐ 3,456 + 2,930

6. Put the correct symbol (<, >, or =) between: 2,456 × 2 ☐ 1,228 × 4

7. Find the missing number: 999,999 − ☐ = 899,999

8. Describe this pattern in words, then write the next two terms: 3, 4.5, 6, 7.5, ☐, ☐

9. At the Avondale Sunday market, Mereana saves money in her jar. She starts with $12 and adds $8 every week. How much is in her jar after 4 weeks of adding? Write the growing pattern.

10. Tane buys 3 packs of feijoas with 6 feijoas in each pack. Hine buys 2 packs with 9 feijoas in each pack. Use <, >, or = to compare who has more feijoas: Tane's total ☐ Hine's total.

Challenge

11. A pattern starts at 100 and is HALVED each step: 100, 50, 25, ☐, ☐. Write the next two terms and describe the rule.

12. Find the missing number that makes this true: 15 + ☐ = 4 × 12. Explain your steps.