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Grade 4 Math Worksheet: Like & Unlike Decimals + Ordering decimals examples : Difficulty Level - Advance

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Instructions: Complete the exercises below to practice identifying like and unlike decimals, and order them correctly.

Part 1: Identifying Like & Unlike Decimals

1. **Label each pair of decimals as 'Like' or 'Unlike':**
   - (a) 3.2500 and 3.25 _____
   - (b) 0.0079 and 0.0790 _____
   - (c) 8.140 and 8.14 _____
   - (d) 12.5 and 12.50 _____
   - (e) 2.003 and 2.030 _____
2. **Convert the following unlike decimals into like decimals by adding zeros where needed and rewrite them:**
   - (a) 4.8 and 4.80 → _____
   - (b) 9.15 and 9.1500 → _____
   - (c) 3.062 and 3.62 → _____
   - (d) 7.009 and 7.9 → _____
   - (e) 11.95 and 11.9500 → _____
3. **True or False:**
   - (a) 0.08 and 0.080 are unlike decimals. _____
   - (b) 1.3000 and 1.3 are like decimals. _____
   - (c) 4.050 and 4.5 are like decimals. _____
   - (d) 7.606 and 7.066 are like decimals. _____
   - (e) 12.400 and 12.04 are like decimals. _____

Part 2: Ordering Decimals

4. **Order the following decimals from smallest to largest:**
   - 2.405, 2.04, 2.045, 2.450
     Answer: _____

—BE CHAMPION—

5. **Arrange the following decimals from largest to smallest:**
    - 9.0567, 9.065, 9.567, 9.056
      Answer: _____
6. **Insert the correct symbol (<, >, or =) to make the following statements true:**
    - (a) 5.102 ____ 5.12
    - (b) 7.682 ____ 7.626
    - (c) 2.500 ____ 2.05
    - (d) 3.400 ____ 3.04
    - (e) 10.406 ____ 10.460
7. **Order these decimals in descending order:**
    - 0.481, 0.48, 0.4880, 0.49
      Answer: _____

Part 3: Advanced Word Problems

8. **Word Problem:** Emily has 15.25 liters of water, Daniel has 15.250 liters, and Laura has 15.255 liters.
    - Who has the most water?
      Answer: _____
9. **Word Problem:**
   A plant grew by the following amounts during three weeks:
    - Week 1: 4.52 cm
    - Week 2: 4.525 cm
    - Week 3: 4.530 cm
    - **Order the growth amounts from least to greatest.**
      Answer: _____
10. **Word Problem:**
    A chef uses 2.825 kg of sugar on Monday, 2.8250 kg on Tuesday, and 2.85 kg on Wednesday.
    - Order the amount of sugar used from greatest to least.
      Answer: _____

Part 4: Decimal Patterns & Sequences

11. **Challenge:**
    Complete the decimal sequence:
    6.053, 6.054, ____, 6.056, 6.057
    Answer: _____

12. **Challenge:**
    Fill in the missing number in the sequence:
    0.712, 0.713, 0.714, ____, 0.716
    Answer: _____
13. **Challenge:**
    Identify the next number in the decimal sequence and order the numbers from smallest to largest:
    5.125, 5.130, 5.12, 5.120
    Answer: _____

Part 5: Application of Decimal Understanding

14. **Word Problem:**
    A sports team records the following times for running a 100-meter race:
    - Athlete 1: 9.890 seconds
    - Athlete 2: 9.89 seconds
    - Athlete 3: 9.8900 seconds
    - Athlete 4: 9.9 seconds
    - **Order the times from fastest to slowest.**
      Answer: _____
15. **Challenge Problem:**
    A store sold the following amounts of apples:
    - 12.505 kg, 12.55 kg, 12.5050 kg, 12.5 kg
    - **Order the amounts of apples sold from least to greatest.**
      Answer: _____

Part 6: Bonus Challenge

16. **Bonus:**
    Arrange these decimals in ascending order, but add one more decimal place to each number before ordering them:
    - 11.345, 11.354, 11.34
      Answer: _____

This worksheet is designed to challenge advanced students by asking them to handle more complex decimal comparisons, conversions, and ordering. It includes word problems with multiple decimal places, and requires a high level of precision and understanding of decimal

value relationships. The sequence-related questions test students' ability to detect patterns in decimal values, enhancing their problem-solving and critical-thinking skills.