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

Instructions: Complete the exercises below to improve your understanding of like and unlike decimals, and practice ordering decimals accurately.

Part 1: Identifying Like & Unlike Decimals

1. **Label each pair of decimals as 'Like' or 'Unlike':**
    ○ (a) 7.350 and 7.35 _____
    ○ (b) 4.002 and 4.2 _____
    ○ (c) 6.006 and 6.060 _____
    ○ (d) 2.45 and 2.4500 _____
    ○ (e) 3.075 and 3.75 _____
2. **Write the following pairs of decimals as 'Like Decimals' by adding trailing zeros where necessary:**
    ○ (a) 9.5 and 9.50 → _____
    ○ (b) 4.204 and 4.24 → _____
    ○ (c) 3.6 and 3.600 → _____
    ○ (d) 1.99 and 1.9 → _____
    ○ (e) 8.87 and 8.870 → _____
3. **True or False:**
    ○ (a) 7.050 and 7.5 are like decimals. _____
    ○ (b) 10.500 and 10.05 are unlike decimals. _____
    ○ (c) 0.025 and 0.25 are unlike decimals. _____
    ○ (d) 8.10 and 8.1 are like decimals. _____
    ○ (e) 4.150 and 4.15 are like decimals. _____

Part 2: Ordering Decimals

4. **Order the following decimals from least to greatest:**

- 6.39, 6.349, 6.32, 6.342
  Answer: _____

5. **Order the following decimals from greatest to least:**
    - 0.472, 0.4725, 0.47, 0.475
      Answer: _____

6. **Insert the correct symbol (<, >, or =) to make the following statements true:**
    - (a) 5.678 _____ 5.6780
    - (b) 9.204 _____ 9.240
    - (c) 1.090 _____ 1.9
    - (d) 8.001 _____ 8.01
    - (e) 3.002 _____ 3.02

7. **Arrange the following decimals in ascending order:**
    - 0.885, 0.88, 0.895, 0.9
      Answer: _____

Part 3: Advanced Word Problems

8. **Word Problem:**
   Sarah measured the lengths of the three ropes as follows:
    - Rope 1: 15.678 cm
    - Rope 2: 15.687 cm
    - Rope 3: 15.68 cm
      Order the ropes from the shortest to the longest length.
      Answer: _____

9. **Word Problem:**
   The prices of different fruits in the store are as follows:
    - Apples: 4.205 USD
    - Bananas: 4.25 USD
    - Cherries: 4.2050 USD
    - **Order the prices from least to greatest.**
      Answer: _____

10. **Word Problem:**
    A bakery sold the following amounts of cakes:
    - Cake 1: 3.560 kg
    - Cake 2: 3.56 kg
    - Cake 3: 3.500 kg

- ○ **Arrange these amounts from greatest to least.**
  Answer: _____

Part 4: Decimal Sequences & Patterns

11. **Challenge:**
    Fill in the missing number in the sequence:
    6.001, 6.002, 6.003, _____, 6.005
    Answer: _____

12. **Challenge:**
    Complete the sequence by identifying the next decimal:
    2.123, 2.124, 2.125, _____, 2.127
    Answer: _____

13. **Challenge:**
    Identify the next decimal number in the sequence and order the numbers from smallest to largest:
    4.10, 4.100, 4.1, 4.101
    Answer: _____

Part 5: Application of Decimal Knowledge

14. **Word Problem:**
    A runner completed the following laps in the race:
    - ○ Lap 1: 12.356 seconds
    - ○ Lap 2: 12.34 seconds
    - ○ Lap 3: 12.340 seconds
    - ○ **Order the lap times from fastest to slowest.**
      Answer: _____

15. **Challenge Problem:**
    A farmer sold the following amounts of potatoes:
    - ○ 6.580 kg, 6.59 kg, 6.505 kg, 6.5050 kg
    - ○ **Order the amounts of potatoes from least to greatest.**
      Answer: _____

Part 6: Bonus Challenge

16. **Bonus:**
    Order the following decimals in ascending order and add one more decimal place to each number before ordering them:
    ○ 5.652, 5.65, 5.650
    Answer: _____

This worksheet includes **advanced-level questions** on identifying like and unlike decimals, ordering decimals, and applying these skills in real-world problems. The exercises challenge students' ability to handle decimals in varied contexts, focusing on precision and pattern recognition, making it ideal for advanced learners.

—BE CHAMPION—