

Grade 4 Math Worksheet: Introduction to Decimals : Difficulty Level -Advance

Instructions: Solve each problem below carefully. Show all your work and write your answers clearly.

Part 1: Decimal Place Value and Number Operations

1. Write the following decimal in words:

5.093

2. Express this number in expanded form:

14.506

3. Identify the place value of the digit 7 in the number 19.478:

Part 2: Comparing and Ordering Decimals

4. Circle the correct answer for the largest number:

- 2.345, 2.354, 2.435, 2.543

5. Arrange the following decimals from smallest to largest:

- 4.08, 4.8, 4.18, 4.008

6. Fill in the blanks with $<$, $>$, or $=$:

- 1.765 _____ 1.76

- 0.507 _____ 0.57

- 2.3 _____ 2.30

Part 3: Addition and Subtraction of Decimals

7. Solve the following problems:

- $7.85 + 4.936 =$ _____

- $16.7 - 5.928 =$ _____

- $11.003 + 2.45 =$ _____

- $9.95 - 6.473 =$ _____

8. Word Problem:

Lily has \$15.60. She buys a toy for \$8.45 and a snack for \$3.25. How much money does she have left?

Part 4: Multiplying and Dividing Decimals

9. Solve these problems:

- $0.85 \times 7 =$ _____

- $2.75 \times 5 =$ _____

- $5.76 \div 4 =$ _____

- $9.0 \div 0.5 =$ _____

10. Word Problem:

A bakery made 8.5 kg of dough. If they divide the dough equally into 10 loaves, how much dough does each loaf get?

Part 5: Advanced Word Problems with Decimals

11. Word Problem:

A bucket holds 18.75 liters of water. If 5.5 liters are used, how much water is left?

12. Word Problem:

Two friends combined their savings. Tom had \$24.75, and Sam had \$19.50. How much money do they have together?

13. Word Problem:

A rope is 12.6 meters long. If you cut it into 4 equal parts, how long is each part?

Bonus Challenge

14. Challenge Problem:

A rectangle has a length of 4.7 meters and a width of 3.5 meters. Calculate the area.

15. Super Challenge:

Sophia baked 5 cakes, each weighing 2.35 kg. What is the total weight of all the cakes?

This worksheet is designed to challenge students' understanding of decimal operations, place value, and real-life applications, making it perfect for grade 4 students looking to master decimal concepts.

—BE CHAMPION—