

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

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

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### Part 1: Decimal Place Value and Number Representation

1. Write the following decimal in expanded form:

8.439

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2. Convert this phrase to a decimal number:

"Seventy-two and four hundred fifty-six thousandths"

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3. Identify the place value of the digit 8 in the number 12.587:

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### Part 2: Comparing and Ordering Decimals

4. Circle the smallest number:

- 1.236, 1.263, 1.326, 1.206

5. Arrange the following decimals from largest to smallest:

- 3.41, 3.14, 3.44, 3.04

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

- 0.905 \_\_\_\_\_ 0.95

- 2.105 \_\_\_\_\_ 2.150

- 0.509 \_\_\_\_\_ 0.59

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### Part 3: Advanced Addition and Subtraction with Decimals

7. Calculate the following:

-  $13.75 + 5.684 =$  \_\_\_\_\_

-  $20.5 - 8.725 =$  \_\_\_\_\_

-  $6.309 + 3.91 =$  \_\_\_\_\_

-  $14.8 - 9.356 =$  \_\_\_\_\_

8. Word Problem:

James bought a book for \$9.95 and a pen for \$2.75. How much did he spend in total?

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### Part 4: Multiplying and Dividing Decimals

9. Solve the following problems:

-  $1.25 \times 6 =$  \_\_\_\_\_

-  $3.42 \times 3 =$  \_\_\_\_\_

-  $7.56 \div 3 =$  \_\_\_\_\_

-  $8.4 \div 0.6 =$  \_\_\_\_\_

10. Word Problem:

A total of 4.8 liters of juice was shared equally among 6 friends. How much juice did each friend receive?

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### Part 5: Real-Life Word Problems with Decimals

11. Word Problem:

A runner jogged 5.75 km in the morning and 3.65 km in the evening. How many kilometers did he run in total?

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12. Word Problem:

An aquarium has 12.4 liters of water. If 4.25 liters evaporate, how much water is left?

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13. Word Problem:

A pack of markers costs \$1.25. How much will 8 packs cost?

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Bonus Challenge

14. Challenge Problem:

A rectangle has a length of 5.8 m and a width of 3.2 m. Find its perimeter.

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15. Super Challenge:

A baker needs 4.75 kg of flour for one large batch of bread. If he makes 3 batches, how much flour does he use in total?

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This advanced worksheet provides comprehensive practice on decimal concepts, including place value, arithmetic, comparison, and real-life word problems, perfect for grade 4 students seeking to deepen their decimal knowledge!

**—BE CHAMPION—**