

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

**Part 1: Decimal Place Value and Number Forms**

1. Write the following decimal in words:

7.436

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2. Convert the following number to decimal form:

"Three and two hundred fifty-seven thousandths"

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3. What is the place value of the digit 3 in the number 5.382?

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**Part 2: Comparing and Ordering Decimals**

4. Circle the largest number:

- 0.834, 0.84, 0.835, 0.843

5. Order the following decimals from largest to smallest:

- 1.56, 1.59, 1.53, 1.58

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

- 0.762 \_\_\_\_\_ 0.76

- 1.009 \_\_\_\_\_ 1.01

- 0.405 \_\_\_\_\_ 0.450

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**Part 3: Addition and Subtraction with Decimals**

7. Solve the following problems:

-  $12.45 + 3.275 =$  \_\_\_\_\_

-  $15.6 - 7.35 =$  \_\_\_\_\_

-  $9.875 + 4.2 =$  \_\_\_\_\_

-  $18.9 - 5.675 =$  \_\_\_\_\_

8. Word Problem:

Rachel has \$20.75. She spends \$4.95 on lunch and \$7.80 on a gift. How much money does she have left?

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#### **Part 4: Multiplying and Dividing Decimals**

9. Solve the following problems:

-  $0.75 \times 8 =$  \_\_\_\_\_

-  $2.35 \times 4 =$  \_\_\_\_\_

-  $6.48 \div 2 =$  \_\_\_\_\_

-  $9.6 \div 0.4 =$  \_\_\_\_\_

10. Word Problem:

A piece of fabric is 3.25 meters long. If a dressmaker cuts it into 5 equal parts, how long is each part?

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#### **Part 5: Mixed Word Problems with Decimals**

11. Word Problem:

A bakery sold 15.75 kg of bread in the morning and 8.45 kg in the afternoon. How much bread did the bakery sell in total?

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12. Word Problem:

A car traveled 132.5 miles over 2.5 hours. What was the average speed in miles per hour?

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13. Word Problem:

Lily bought 2.5 kg of apples, 1.75 kg of oranges, and 3.25 kg of bananas. How much fruit did she buy in total?

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### **Bonus Challenge**

14. Challenge Problem:

A rectangular garden has a length of 6.25 meters and a width of 4.5 meters. What is the area of the garden in square meters?

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This advanced worksheet includes decimal place value, addition, subtraction, multiplication, division, and complex word problems to challenge grade 4 students' understanding and application of decimal concepts!

**—BE CHAMPION—**