

Word Problems with Decimals

Grade 5 Math • Section 7.6

Name: _____

Date: _____

Score: _____ / 10

Quick Review and Helpful Hints

Choose the operation: “Total” or “combined” → add. “Difference” or “how much more” → subtract. “Each group” or “per item” → multiply or divide.

Always estimate the answer first and check at the end.

Watch your decimal placement! Double-check by estimating.

Example: A store sells apples for \$1.25 each. Sarah buys 6 apples and pays with a \$10 bill. How much change does she receive?

Cost: $6 \times 1.25 = 7.50$. Change: $10.00 - 7.50 = 2.50$.

Answer: \$2.50

Practice Problems

Solve each word problem. Show your work.

- A jogger runs 3.75 miles on Monday, 4.2 miles on Wednesday, and 2.85 miles on Friday. How many miles did the jogger run in total?

- A board is 8.5 feet long. Three pieces of 2.15 feet each are cut from it. How much is left?

- A pack of 12 pens costs \$9.96. What is the cost per pen?

- Gas costs \$3.85 per gallon. How much does 6.4 gallons cost?

- A recipe calls for 2.5 cups of flour. If you want to make 1.5 times the recipe, how much flour do you need?

- Sam earns \$11.50 per hour. He works 6.5 hours. How much does he earn?

- A rope is 15.6 meters. It is cut into pieces of 1.2 meters each. How many pieces are there?

- Three items cost \$4.99, \$12.50, and \$7.25. What is the total cost? If paid with \$30, what is the change?

Word Problems

- A car averages 32.5 miles per gallon. How far can it go on 12.4 gallons of gas?

- A family's water bill is charged at \$0.045 per gallon. They use 3,200 gallons in a month. What is the bill?



Answer Keys

- | | |
|--------------|--------------------|
| 1. 10.8 mi | 6. \$74.75 |
| 2. 2.05 ft | 7. 13 |
| 3. \$0.83 | 8. \$24.74; \$5.26 |
| 4. \$24.64 | 9. 403 mi |
| 5. 3.75 cups | 10. \$144 |

Step-by-Step Explanations

1. Start with the main idea. For word problems with decimals, add the distances: $3.75 + 4.2 + 2.85 = 10.8$. Write the given information first, then choose the operation that matches the situation.

2. Keep the work tidy. For word problems with decimals, three pieces total $3 \times 2.15 = 6.45$ ft; $8.5 - 6.45 = 2.05$ ft remains. A quick estimate helps confirm that the final answer is reasonable.

3. Look at what the numbers mean. For word problems with decimals, $9.96 \div 12 = 0.83$ per pen. The explanation should show both the computation and why that computation fits the problem.

4. Use the setup first. For word problems with decimals, $3.85 \times 6.4 = 24.64$. Write the given information first, then choose the operation that matches the situation.

5. Check the size of the answer. For word problems with decimals, $2.5 \times 1.5 = 3.75$ cups. A quick estimate helps confirm that the final answer is reasonable.

6. Match the operation to the words. For word problems with decimals, $11.50 \times 6.5 = 74.75$. The explanation should show both the computation and why that computation fits the problem.

7. Write the important values first. For word problems with decimals, $15.6 \div 1.2 = 13$ pieces. Write the given information first, then choose the operation that matches the situation.

8. Follow the pattern carefully. For word problems with decimals, total: $4.99 + 12.50 + 7.25 = 24.74$; change: $30 - 24.74 = 5.26$. A quick estimate helps confirm that the final answer is reasonable.

9. Start with the main idea. For word problems with decimals, $32.5 \times 12.4 = 403$ miles. The explanation should show both the computation and why that computation fits the problem.

10. Keep the work tidy. For word problems with decimals, $0.045 \times 3,200 = 144$. Write the given information first, then choose the operation that matches the situation.



Want Even More Practice?

Check Out Our Other New Hampshire NH SAS Test Books!



New Hampshire NH SAS Grade 5 Math Preparation Bundle

18 full-length practice tests across three books
(5 + 6 + 7)

No repeated questions—maximum practice value!



18 Tests!
3 Books
One Bundle

Important: All our test books contain **unique, completely different tests** from each other! Each book offers fresh practice questions—no repeats!

5 Practice Tests

- ✓ 5 complete practice tests with detailed explanations
- ✓ Perfect foundation for NH SAS test preparation
- ✓ Builds confidence and test-taking skills
- ✓ High-quality questions aligned with state standards

Start your practice journey!

6 Practice Tests

- ✓ 6 complete practice tests with detailed explanations
- ✓ **Unique tests**—different from the 5 tests book
- ✓ Perfect for more practice after mastering 5 tests
- ✓ Builds even more confidence and test-taking skills
- ✓ Same high-quality questions aligned with standards

Take your practice to the next level!

7 Practice Tests

- ✓ 7 complete practice tests for maximum preparation
- ✓ **Unique tests**—different from 5 and 6 tests books
- ✓ The most comprehensive practice for Grade 5
- ✓ Ideal for students aiming for top scores
- ✓ Extensive practice builds mastery and confidence

Go all the way with comprehensive practice!