

Solve Multistep Decimal Problems

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Interactive Examples

1. Lily spent \$30.00 on a T-shirt, a sandwich, and 2 books. The T-shirt cost \$8.95, and the sandwich cost \$7.25. The books each cost the same amount. How much did each book cost?

$$(2 \times \text{cost of each book}) + \$8.95 + \$7.25 = \$30.00$$

$$\$30.00 - \$8.95 - \$7.25 = (2 \times \text{cost of each book})$$


$$(2 \times \text{cost of each book}) = \$13.80$$

$$\$13.80 \div 2 = \$6.90$$

\$6.90

2. Meryl spends a total of \$68.82 for 2 pairs of sneakers with the same cost. The sales tax is \$5.32. Meryl also uses a coupon for \$3.00 off her purchase. How much does each pair of sneakers cost?

3. A 6-pack of undershirts costs \$13.98. This is \$3.96 less than the cost of buying 6 individual shirts. If each undershirt costs the same amount, how much does each undershirt cost when purchased individually?

4.  **WRITE** *Math* Write a problem that can be solved using a flowchart and working backward. Then draw the flowchart and solve the problem.

Lesson Check

5. Joe spends \$8 on lunch and \$6.50 on dry cleaning. He also buys 2 shirts that each cost the same amount. Joe spends a total of \$52. What is the cost of each shirt?
6. Tia uses a \$50 gift certificate to buy a pair of pajamas for \$17.97, a necklace for \$25.49, and 3 pairs of socks that each cost the same amount. Tia has to pay \$0.33 because the gift certificate does not cover the total cost of all the items. How much does each pair of socks cost?

Spiral Review

7. List the following numbers in order from least to greatest.
2.31, 2.13, 0.123, 3.12
8. Stephan wrote the problem $46.8 \div 0.5$. What is the correct quotient?
9. Sarah, Juan, and Lars are on the high school track team. Last week, Sarah ran 8.25 miles, Juan ran 11.8 miles, and Lars ran 9.3 miles. How many miles did they run altogether?
10. On a fishing trip, Lia and Ed caught one fish each. Ed's fish weighed 6.45 pounds. Lia's fish weighed 1.6 times as much as Ed's fish. How much did Lia's fish weigh?