Problem Solving • Decimal Operations

COMMON CORE STANDARD CC.5.NBT.7
Perform operations with multi-digit whole numbers and with decimals to hundredths.

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 × cost of each book) + $8.95 + $7.25 = $30.00

$30.00 − $8.95 − $7.25 = (2 × cost of each book)

(2 × cost of each book) = $13.80
$13.80 ÷ 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?

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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?

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4. Mason spent $15.85 for 3 notebooks and 2 boxes of markers. The boxes of markers cost $3.95 each, and the sales tax was $1.23. Mason also used a coupon for $0.75 off his purchase. If each notebook had the same cost, how much did each notebook cost?

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Lesson Check (CC.5.NBT.7)

1. 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?

   (A) $18.25
   (B) $18.75
   (C) $33.75
   (D) $37.50

2. Tina 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. Tina 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?

   (A) $0.11
   (B) $2.07
   (C) $2.18
   (D) $2.29

Spiral Review (CC.5.NBT.2, CC.5.NBT.3b, CC.5.NBT.7)

3. Which list orders the numbers from least to greatest? (Lesson 3.3)

   (A) 0.123, 2.13, 3.12, 2.31
   (B) 0.123, 2.13, 2.31, 3.12
   (C) 2.13, 0.123, 3.12, 2.31
   (D) 3.12, 2.31, 2.13, 0.123

4. Stephen wrote the problem 46.8 ÷ 0.5. What is the correct quotient? (Lesson 5.7)

   (A) 0.936
   (B) 9.36
   (C) 93.6
   (D) 936

5. Sarah, Juan, and Larry are on the track team. Last week, Sarah ran 8.25 miles, Juan ran 11.8 miles, and Larry ran 9.3 miles. How many miles did they run altogether? (Lesson 3.8)

   (A) 28.35 miles
   (B) 28.36 miles
   (C) 29.35 miles
   (D) 29.36 miles

6. On a fishing trip, Lucy and Ed caught one fish each. Ed's fish weighed 6.45 pounds. Lucy's fish weighed 1.6 times as much. How much did Lucy's fish weigh? (Lesson 4.7)

   (A) 4.85 pounds
   (B) 8.05 pounds
   (C) 10.32 pounds
   (D) 103.20 pounds