

Unit 5: Place Value Patterns and Decimal Operations

ADVANCED • SET 4

Name: _____ Date: _____

Solve each problem and write the exact answer in the blank — do not round, and keep every decimal place.

1. Mia starts with the number 0.0836. She multiplies it by 10^4 , then divides that result by 10^2 . What number does she end with?

Answer: _____

3. Dev has \$50.00. He buys 3 notebooks that cost \$4.85 each and one marker that costs \$2.79. How much money does Dev have left, in dollars?

Answer: _____

5. 8 friends share 41.4 ounces of trail mix equally. How many ounces does each friend get?

Answer: _____

7. Leo knows that $372 \times 46 = 17,112$. Use that fact to find 3.72×0.46 .

Answer: _____

9. Each sticker weighs 0.06 grams. A pile of the same stickers weighs 4.8 grams. How many stickers are in the pile?

Answer: _____

11. A juice machine has 14.7 liters in its tank. It fills 28 cups, and each cup holds 0.35 liters. How many liters are left in the tank?

Answer: _____

2. Look at the number 3,003.303. The value of the 3 in the thousands place is how many times the value of the 3 in the thousandths place?

Answer: _____

4. A leaky tap drips 0.375 liters of water every hour. How many liters drip in 6.4 hours?

Answer: _____

6. A 2.5 kg bag of rice costs \$9.20. At the same price per kilogram, how much does 4.75 kg of rice cost, in dollars?

Answer: _____

8. Work out $15.2 - 0.4 \times (2.3 + 6.7)$.

Answer: _____

10. Kai says that $5.6 \div 0.8$ is greater than 5.6×0.8 . Work out both answers. Is Kai right? Answer yes or no.

Answer: _____