

Worksheet: Operations on Decimals (Addition and Subtraction) : Difficulty Level : Advance

Instructions: Carefully solve the problems below involving operations with decimals. Show your work for each question to receive full credit.

Part 1: Addition and Subtraction

	1.	Add	the	follo	wing	decima	als:
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- o (a) 76.543 + 34.287 = _____
- o (b) 90.876 + 12.134 = _____
- o (c) 7.890 + 45.210 + 3.456 = _____
- o (d) 23.001 + 0.999 = _____

2. Subtract the following decimals:

- o (a) 456.789 123.456 = _____
- o (b) 50.505 25.505 = _____
- o (c) 89.567 78.123 = _____
- o (d) 12.345 6.789 = _____

Part 2: Multiplication

3. Multiply the following decimals:

- o (a) 3.456 × 4.5 = _____
- o (b) 7.890 × 1.2 = ____
- o (c) 5.123 × 0.06 = _____
- o (d) 9.876 × 0.3 = _____

4. Word Problem:

A bag of flour weighs 1.235 kg. If a baker buys 7.5 bags, how much flour does the baker have in total?

Answer: _____

	○ (a) 98.765 ÷ 3.5 =
	o (b) 56.789 ÷ 4.2 =
	o (c) 24.567 ÷ 1.23 =
	o (d) 8.64 ÷ 0.12 =
6.	Word Problem:
	A 6.345-liter bottle of juice is poured equally into 5 smaller bottles. What is the amount of
	juice in each smaller bottle?
	Answer:
art 4	4: Mixed Operations
7.	Solve the following mixed operations:
	o (a) (8.567 + 2.345) × 3.4 =
	o (b) 20.789 - (5.123 + 7.234) =
	o (c) (15.678 × 2.5) ÷ 5.1 =
	o (d) 4.567 ÷ (2.1 + 0.3) =
8.	Word Problem:
	A train travels 0.756 km per minute. If it travels for 150.5 minutes, how far does it go in
	total?
	Answer:
Part	5: Challenge Problems
9.	Advanced Word Problem:
	Maria bought 3 items priced at \$12.345, \$45.67, and \$8.901. If she paid with a \$100 bill,
	how much change did she receive?
	Answer:
10	. Complex Calculation:
	(50.123 × 1.5) - (23.456 ÷ 2.3) + 17.789 =
11.	. Challenge Question:
	Divide 256.789 by 12.34 and then add 15.123 to the result.
	Answer:
art (6: Real-World Application
12	. Word Problem:
	A recipe calls for 0.375 liters of oil per serving. How much oil is needed for 8.5 servings?

Answer: _____

5. Divide the following decimals:

	A board is 22.567 meters long. If pieces of 4.123 meters each are cut from it, how many full pieces can be cut and how much length remains? Answer:
Part	7: Bonus Challenge
14	Bonus Problem: A machine processes 0.123 kg of raw material per minute. How much raw material is processed in 245.6 minutes? Answer:
15	. Challenge Puzzle: Multiply 9.876 by 4.321 and then divide the product by 3.210. Answer:

13. Practical Problem:

This worksheet presents advanced challenges with various operations on decimals, including real-life applications and word problems to deepen the understanding and critical thinking of grade 4 students.

—BE CHAMPION—