Educational Worksheet

Answer Key: Add and Subtract Decimals

Grade 7 Mathematics - Medium Difficulty

Total Marks: 40

Section A: Basic Addition and Subtraction

1.
$$23.4 + 15.7 = 39.1$$

$$2.67.89 + 23.4 = 91.29$$

3.
$$156.7 - 89.3 = 67.4$$

$$4.45.67 - 28.9 = 16.77$$

5.
$$123.456 + 67.89 = 191.346$$

6.
$$234.5 - 167.89 = \underline{66.61}$$

7.
$$89.7 + 123.45 + 67.8 = 280.95$$

$$8.456.78 - 289.456 = 167.324$$

9.
$$12.345 + 67.8 + 123.45 = 203.595$$

10.
$$789.4 - 456.789 = 332.611$$

Section B: Mixed Operations

11.
$$45.6 + 23.78 - 12.9 = 56.48$$

12.
$$123.4 - 67.89 + 45.6 = 101.11$$

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$$14.67.8 - 23.456 + 89.7 = 134.044$$

15.
$$345.67 + 123.4 - 234.56 + 67.8 = 302.31$$

$$16.456.7 - 234.89 + 123.45 - 67.8 = 277.46$$

17.
$$789.45 + 123.6 - 456.78 + 234.5 = 690.77$$

18.
$$234.5 - 123.67 + 456.8 - 234.56 = 333.07$$

Section C: Word Problems

$$21.\ 2.5 + 1.75 + 0.85 = 4.1 \text{ kg}$$

22.
$$3.7 + 4.85 + 2.95 = 11.5 \text{ km}$$

24.
$$45.67 + 23.8 - 12.45 = 57.02 \text{ mL}$$

Section D: Problem Solving Challenges

25.
$$23.4 + 8.23 - 12.67 = 18.9$$

26. Estimate: **Greater than 100** (34 + 29 + 31 + 7 = 101 approximately)

27.
$$2.75 + 3.2 + 2.95 - 1.85 = 7.05 \text{ kg}$$

28. <u>22.1, 25.3</u> (adding 3.2 each time)

30.
$$156.7 - 34.85 - 23.9 - 45.67 = 52.28$$
 cm

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Teaching Notes

Common Mistakes to Watch For:

- Alignment: Not aligning decimal points when adding/subtracting
- Placeholders: Forgetting to include zeros as placeholders
- **Word Problems**: Misreading whether to add or subtract
- <u>Mixed Operations</u>: Incorrect order of operations with multiple steps

Extension Activities:

- Create decimal word problems using real store prices
- Practice estimating before calculating exact answers
- Use a calculator to check difficult calculations
- Research decimal usage in sports (times, distances, scores)

Assessment Criteria:

- Excellent (36-40 marks): Confident with all operations, minimal errors
- Good (30-35 marks): Mostly accurate, minor calculation mistakes
- Satisfactory (24-29 marks): Basic understanding, some alignment issues
- Needs Support (<24 marks): Requires additional practice with decimal concepts

This answer key corresponds to: add-subtract-decimals.md