Educational Worksheet

Answer Key: Add and Subtract Decimals

Grade 7 Mathematics - Medium Difficulty Total Marks: 40

Section A: Basic Addition and Subtraction

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1.23.4 + 15.7 = 39.1
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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 = 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

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11.45.6 + 23.78 - 12.9 = 56.48
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12. 123.4 - 67.89 + 45.6 =**101.11**

13. 234.56 + 78.9 - 156.78 = **156.68**

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

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19. £12.45 + £3.67 + £5.89 = £22.01
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20. £145.67 + £23.45 - £67.89 = **£101.23**

21.2.5 + 1.75 + 0.85 = 4.1 kg

22.3.7 + 4.85 + 2.95 = 11.5 km

23. £1.250.50 - £345.67 - £234.89 - £156.75 = **£513.19**

24.45.67 + 23.8 - 12.45 = 57.02 mL

Section D: Problem Solving Challenges

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25.23.4 + 8.23 - 12.67 = 18.9
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26. Estimate: **Greater than 100** (34 + 29 + 31 + 7 = 101 approximately)

27.2.75 + 3.2 + 2.95 - 1.85 = 7.05 kg

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
- Mixed Operations: 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