



Mental calculation: compensate

PRACTICE WORKSHEET

12 exercises | A4 | 1 / 2

Name: _____ Date: _____

Show your working in the blank space or on separate paper. Sketch labelled rods/beads when asked to represent a number.

1 Calculate $44 + 49$ by compensation.

2 Calculate $61 + 69$ by compensation.

3 Calculate $78 + 19$ by compensation.

4 Calculate $27 + 39$ by compensation.

5 Calculate $44 + 29$ by compensation.

6 Calculate $61 + 49$ by compensation.

7 Calculate $78 + 69$ by compensation.

8 Calculate $27 + 59$ by compensation.

9 Calculate $84 + 79$ by compensation.

10 Calculate $137 + 29$ by compensation.

11 Calculate $190 + 19$ by compensation.

12 Calculate $55 + 39$ by compensation.

Practise interactively and explore the method:

<https://goofergames.com/math/world/mental-calculation>



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ANSWER KEY

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Use after completing the practice page. Values are generated by the page's shared engine.

Equivalent exact representations are valid where the prompt allows them. Non-integer results are rounded to two decimals.

1 Answer: 93

Total after adding the friendly ten: 94; Total after compensating: 93

2 Answer: 130

Total after adding the friendly ten: 131; Total after compensating: 130

3 Answer: 97

Total after adding the friendly ten: 98; Total after compensating: 97

4 Answer: 66

Total after adding the friendly ten: 67; Total after compensating: 66

5 Answer: 73

Total after adding the friendly ten: 74; Total after compensating: 73

6 Answer: 110

Total after adding the friendly ten: 111; Total after compensating: 110

7 Answer: 147

Total after adding the friendly ten: 148; Total after compensating: 147

8 Answer: 86

Total after adding the friendly ten: 87; Total after compensating: 86

9 Answer: 163

Total after adding the friendly ten: 164; Total after compensating: 163

10 Answer: 166

Total after adding the friendly ten: 167; Total after compensating: 166

11 Answer: 209

Total after adding the friendly ten: 210; Total after compensating: 209

12 Answer: 94

Total after adding the friendly ten: 95; Total after compensating: 94

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