

Using Rounding to Check Answers

Round these numbers to the nearest 100 and perform a mental calculation. Decide if your answer is close.

| | Calculation | Rounded Approximation | Does the original answer look correct based on rounded estimation? | Corrected Answer if necessary (You may need to recalculate) |
|------|-------------------------------|-----------------------|--|---|
| e.g. | $325.7 + 485.4 = 911.1$ | $300 + 500 = 800$ | No | 811.1 |
| 1. | $615 + 391 = 1006$ | | | |
| 2. | $872 + 211 = 1083$ | | | |
| 3. | $235.3 + 258.9 = 494.2$ | | | |
| 4. | $475.23 + 596.98 = 1172.21$ | | | |
| 5. | $4567 + 3219 = 7786$ | | | |
| 6. | $5387.3 + 2418.8 = 7806.1$ | | | |
| 7. | $4879.54 + 2712.89 = 7952.43$ | | | |
| 8. | $97433 + 87679 = 181152$ | | | |

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Round these numbers to the nearest ten and perform a mental calculation. Decide if your answer is close.

| | Calculation | Rounded Approximation | Does the original answer look correct based on rounded estimation? | Corrected Answer if necessary (You may need to recalculate) |
|------|------------------------------|-----------------------|--|---|
| e.g. | $456 + 242 = 698$ | $460 + 240 = 700$ | Yes! | |
| 1. | $371 + 287 = 658$ | | | |
| 2. | $548 + 342 = 890$ | | | |
| 3. | $784 + 329 = 1113$ | | | |
| 4. | $234.8 + 172.9 = 307.7$ | | | |
| 5. | $896.6 + 402.7 = 1299.3$ | | | |
| 6. | $345.45 + 378.31 = 623.76$ | | | |
| 7. | $1762.99 + 37.22 = 2100.11$ | | | |
| 8. | $4873.23 + 151.82 = 5025.05$ | | | |

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|------|-------------------------------|--|--|---|
| e.g. | $325.7 + 485.4 = 911.1$ | $300 + 500 = 800$ | Yes | 811.1 |
| 1. | $615 + 391 = 1006$ | $600 + 400 = 1000$ | No | |
| 2. | $872 + 211 = 1083$ | $900 + 200 = 1100$ | Yes | |
| 3. | $235.3 + 258.9 = 494.2$ | $200 + 300 = 500$ | Yes | |
| 4. | $475.23 + 596.98 = 1272.21$ | $500 + 600 = 1100$ | No | 1072.21 |
| 5. | $4567 + 3219 = 7786$ | $4600 + 3200 = 7800$ | Yes | |
| 6. | $5387.3 + 2418.8 = 7806.1$ | $5400 + 2400 = 7800$ | Yes | |
| 7. | $4879.54 + 2712.89 = 7592.43$ | $4900 + 2700 = 7600$ | No | 7592.43 |
| 8. | $97433 + 87679 = 181152$ | $97400 + 87700 = 185100$ | No | 185112 |

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|------|------------------------------|---------------------------------------|--|---|
| e.g. | $456 + 242 = 698$ | $460 + 240 = 700$ | Yes! | |
| 1. | $371 + 287 = 658$ | $370 + 290 = 660$ | Yes | |
| 2. | $548 + 342 = 890$ | $550 + 340 = 890$ | Yes | |
| 3. | $784 + 329 = 1113$ | $780 + 330 = 1110$ | Yes | |
| 4. | $234.8 + 172.9 = 307.7$ | $230 + 170 = 400$ | No | 407.7 |
| 5. | $896.6 + 402.7 = 1299.3$ | $900 + 400 = 1300$ | Yes | |
| 6. | $345.45 + 378.31 = 623.76$ | $350 + 380 = 730$ | No | 723.76 |
| 7. | $1762.99 + 37.22 = 2100.11$ | $1760 + 40 = 1800$ | No | 1800.21 |
| 8. | $4873.23 + 151.82 = 5025.05$ | $4870 + 150 = 5020$ | Yes | |