

Adding Multi-Digit Whole Numbers

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

To add big numbers, line them up so the **place values** match: ones under ones, tens under tens, and so on. Then add one column at a time, starting from the **ones** on the right. If a column adds up to 10 or more, you **regroup** (carry) the extra ten into the next column to the left. Keep going until every column is added. It helps to **estimate** first — round each number and add — so you can check that your answer makes sense.

◇ **Example:** Find $3,472 + 1,859$.

⇒ Stack the numbers with the place values lined up. Start in the ones: $2 + 9 = 11$, so write 1 and carry the 1 ten. Tens: $7 + 5 + 1 = 13$, write 3 and carry 1. Hundreds: $4 + 8 + 1 = 13$, write 3 and carry 1. Thousands: $3 + 1 + 1 = 5$. Reading it back gives 5,331. A quick check: $3,500 + 1,900 = 5,400$, which is close — so our answer looks right.

Answer: 5,331

PRACTICE

Add. Line up the place values and regroup when needed.

- | | | | |
|---------------------|-------|-------------------------|-------|
| 1. $472 + 318$ | _____ | 11. $12,480 + 8,635$ | _____ |
| 2. $815 + 236$ | _____ | 12. $23,615 + 18,497$ | _____ |
| 3. $640 + 290$ | _____ | 13. $34,027 + 29,856$ | _____ |
| 4. $1,374 + 521$ | _____ | 14. $45,280 + 37,965$ | _____ |
| 5. $2,086 + 915$ | _____ | 15. $54,306 + 28,897$ | _____ |
| 6. $3,472 + 1,859$ | _____ | 16. $208,145 + 196,878$ | _____ |
| 7. $4,205 + 3,678$ | _____ | 17. $317,026 + 284,957$ | _____ |
| 8. $5,160 + 2,847$ | _____ | 18. $429,380 + 375,648$ | _____ |
| 9. $6,038 + 2,974$ | _____ | 19. $536,074 + 289,936$ | _____ |
| 10. $7,421 + 1,589$ | _____ | 20. $648,215 + 357,896$ | _____ |

◆ Word Problems

21. A school library had 4,260 books. Over the year it added 1,385 more. How many books does the library have now? _____
22. On Saturday 12,540 fans went to a baseball game, and on Sunday 9,875 fans came. How many fans attended over the two days? _____
23. A toy factory made 158,340 toys in spring and 246,795 toys in summer. How many toys did it make in all? _____
24. A city raised \$73,608 for a new park last year and \$58,294 this year. How much money has the city raised altogether? _____



Answer Keys

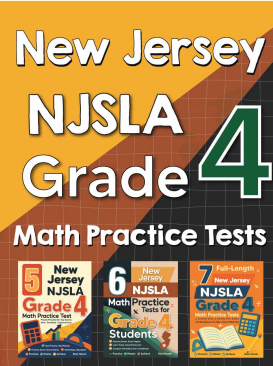
- | | |
|------------|------------------|
| 1. 790 | 13. 63,883 |
| 2. 1,051 | 14. 83,245 |
| 3. 930 | 15. 83,203 |
| 4. 1,895 | 16. 405,023 |
| 5. 3,001 | 17. 601,983 |
| 6. 5,331 | 18. 805,028 |
| 7. 7,883 | 19. 826,010 |
| 8. 8,007 | 20. 1,006,111 |
| 9. 9,012 | 21. 5,645 books |
| 10. 9,010 | 22. 22,415 fans |
| 11. 21,115 | 23. 405,135 toys |
| 12. 42,112 | 24. \$131,902 |

Step-by-Step Explanations

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|--|---|
| <p>1. Ones: $2 + 8 = 10$, write 0 carry 1. Tens: $7 + 1 + 1 = 9$. Hundreds: $4 + 3 = 7$. That gives 790.</p> <p>2. Ones $5 + 6 = 11$, tens $1 + 3 + 1 = 5$, hundreds $8 + 2 = 10$. The answer is 1,051.</p> <p>3. Ones $0 + 0 = 0$, tens $4 + 9 = 13$ (write 3, carry 1), hundreds $6 + 2 + 1 = 9$. So 930.</p> <p>4. Add column by column with no regrouping needed: $1,374 + 521 = 1,895$.</p> <p>5. Ones $6 + 5 = 11$, tens $8 + 1 + 1 = 10$, hundreds $0 + 9 + 1 = 10$, thousands $2 + 1 = 3$. That makes 3,001.</p> <p>6. Carrying through each column gives 5,331.</p> <p>7. Ones $5 + 8 = 13$, tens $0 + 7 + 1 = 8$, hundreds $2 + 6 = 8$, thousands $4 + 3 = 7$. So 7,883.</p> <p>8. Ones $0 + 7 = 7$, tens $6 + 4 = 10$, hundreds $1 + 8 + 1 = 10$, thousands $5 + 2 + 1 = 8$. The answer is 8,007.</p> <p>9. Carrying carefully through every column gives 9,012.</p> <p>10. Ones $1 + 9 = 10$, tens $2 + 8 + 1 = 11$, hundreds $4 + 5 + 1 = 10$,</p> | <p>thousands $7 + 1 + 1 = 9$. So 9,010.</p> <p>11. Line up the digits and add: $12,480 + 8,635 = 21,115$.</p> <p>12. Adding column by column with regrouping gives 42,112.</p> <p>13. Stack the numbers and add each place: the total is 63,883.</p> <p>14. Working right to left with carries gives 83,245.</p> <p>15. Add each column carefully: $54,306 + 28,897 = 83,203$.</p> <p>16. These are six-digit numbers — just keep lining up places. The sum is 405,023.</p> <p>17. Adding each place value with carries gives 601,983.</p> <p>18. Stack and add column by column: the total is 805,028.</p> <p>19. Carry through each column to get 826,010.</p> <p>20. The sum passes one million: $648,215 + 357,896 = 1,006,111$.</p> <p>21. Add the books together: $4,260 + 1,385 = 5,645$ books.</p> <p>22. Combine both days: $12,540 + 9,875 = 22,415$ fans.</p> <p>23. Add the two seasons: $158,340 + 246,795 = 405,135$ toys.</p> <p>24. Add both years: $73,608 + 58,294 = 131,902$, so \$131,902 in all.</p> |
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