

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

### Step-by-Step Explanations

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| <p>1. Ones: <math>2 + 8 = 10</math>, write 0 carry 1. Tens: <math>7 + 1 + 1 = 9</math>. Hundreds: <math>4 + 3 = 7</math>. That gives 790.</p> <p>2. Ones <math>5 + 6 = 11</math>, tens <math>1 + 3 + 1 = 5</math>, hundreds <math>8 + 2 = 10</math>. The answer is 1,051.</p> <p>3. Ones <math>0 + 0 = 0</math>, tens <math>4 + 9 = 13</math> (write 3, carry 1), hundreds <math>6 + 2 + 1 = 9</math>. So 930.</p> <p>4. Add column by column with no regrouping needed: <math>1,374 + 521 = 1,895</math>.</p> <p>5. Ones <math>6 + 5 = 11</math>, tens <math>8 + 1 + 1 = 10</math>, hundreds <math>0 + 9 + 1 = 10</math>, thousands <math>2 + 1 = 3</math>. That makes 3,001.</p> <p>6. Carrying through each column gives 5,331.</p> <p>7. Ones <math>5 + 8 = 13</math>, tens <math>0 + 7 + 1 = 8</math>, hundreds <math>2 + 6 = 8</math>, thousands <math>4 + 3 = 7</math>. So 7,883.</p> <p>8. Ones <math>0 + 7 = 7</math>, tens <math>6 + 4 = 10</math>, hundreds <math>1 + 8 + 1 = 10</math>, thousands <math>5 + 2 + 1 = 8</math>. The answer is 8,007.</p> <p>9. Carrying carefully through every column gives 9,012.</p> <p>10. Ones <math>1 + 9 = 10</math>, tens <math>2 + 8 + 1 = 11</math>, hundreds <math>4 + 5 + 1 = 10</math>,</p> | <p>thousands <math>7 + 1 + 1 = 9</math>. So 9,010.</p> <p>11. Line up the digits and add: <math>12,480 + 8,635 = 21,115</math>.</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: <math>54,306 + 28,897 = 83,203</math>.</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: <math>648,215 + 357,896 = 1,006,111</math>.</p> <p>21. Add the books together: <math>4,260 + 1,385 = 5,645</math> books.</p> <p>22. Combine both days: <math>12,540 + 9,875 = 22,415</math> fans.</p> <p>23. Add the two seasons: <math>158,340 + 246,795 = 405,135</math> toys.</p> <p>24. Add both years: <math>73,608 + 58,294 = 131,902</math>, so \$131,902 in all.</p> |
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