

## Addition Within 1,000

Adding bigger numbers works the same way as adding small ones — one column at a time, starting from the right. When a column gives you 10 or more, you carry the extra to the next column.

### Place-Value Addition Steps

1. Line up the digits by place value (ones under ones, tens under tens, hundreds under hundreds).
2. Add the *ones* column first; if the sum is  $\geq 10$ , write the ones digit and carry the tens.
3. Add the *tens* column (plus any carried digit); regroup again if the sum is  $\geq 10$ .
4. Add the *hundreds* column last.


$$\begin{array}{r}
 \begin{array}{ccc}
 \overset{1}{\text{H}} & \overset{1}{\text{T}} & \text{O} \\
 3 & 5 & 6 \\
 + 2 & 7 & 8 \\
 \hline
 6 & 3 & 4
 \end{array}
 & \begin{array}{l}
 \leftarrow 6 + 8 = 14, \text{ write } 4, \text{ carry } 1 \\
 \leftarrow 1 + 5 + 7 = 13, \text{ write } 3, \text{ carry } 1
 \end{array}
 \end{array}$$

### Key Concepts

1. Always start at the **ones** column and work your way to the left. Going the other direction usually gives the wrong answer.
2. **Regroup** (or “carry”) whenever a column adds up to 10 or more. Write the ones digit of that sum in the current column and put the carried digit on top of the next column.
3. If you prefer to “break it apart,” you can split each number by place value first:  $356 + 278$  becomes  $(300 + 200) + (50 + 70) + (6 + 8)$ . Either method gives the same answer.
4. Always check by subtracting: if  $245 + 318 = 563$ , then  $563 - 318$  should bring you back to 245.


## Worked Examples

①  $245 + 318$

 Start with the ones:  $5 + 8 = 13$ . That is more than 9, so write the 3 in the ones column and carry the 1 over to the tens. Tens column:  $1 + 4 + 1 = 6$ . No regrouping needed — just write the 6. Hundreds:  $2 + 3 = 5$ . Stack the answers from left to right: 5, 6, 3.


 **Answer:** 563

②  $487 + 365$

 Ones:  $7 + 5 = 12$  — write 2, carry 1. Tens:  $1 + 8 + 6 = 15$  — write 5, carry 1. Hundreds:  $1 + 4 + 3 = 8$ . Two carries happened, but the method stayed the same: every time a column got too big, the extra rolled into the next one. Final answer: 852.

 **Answer:** 852

③  $602 + 199$

 Ones:  $2 + 9 = 11$  — write 1, carry 1. Tens:  $1 + 0 + 9 = 10$  — write 0, carry 1. (Yes, you carry even when the column already had a 0.) Hundreds:  $1 + 6 + 1 = 8$ . Reading from left to right: 801. Pro tip: notice that 199 is just one less than 200, so the answer should be one less than  $602 + 200 = 802$ . And it is!




 **Answer:** 801

### Practice Problems

Find each sum.

- |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. <math>134 + 253</math> _____</p> <p>2. <math>461 + 327</math> _____</p> <p>3. <math>286 + 145</math> _____</p> <p>4. <math>509 + 376</math> _____</p> <p>5. <math>348 + 452</math> _____</p> <p>6. <math>175 + 668</math> _____</p> | <p>7. <math>294 + 518</math> _____</p> <p>8. <math>637 + 185</math> _____</p> <p>9. <math>429 + 371</math> _____</p> <p>10. <math>556 + 278</math> _____</p> <p>11. <math>103 + 897</math> _____</p> <p>12. <math>748 + 164</math> _____</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Study Tips

-  Use **graph paper** or draw light vertical lines to keep your columns straight. Most mistakes come from digits drifting into the wrong column.
-  Always write the carried digit small *above* the next column. If you skip it, the answer will be off by exactly 10 (or 100).
-  Estimate first to sanity-check yourself.  $250 + 320$  is roughly 570, so an answer like 390 should make you go back and check.

 **Word Problems**

1. A school collected 374 cans of food in the first week and 289 cans in the second week. How many cans were collected in all?

Answer: \_\_\_\_\_

2. Logan read 156 pages on Monday and 247 pages on Tuesday. How many pages did he read in total?

Answer: \_\_\_\_\_

**Answer Key — with Friendly Explanations****Practice Problems**

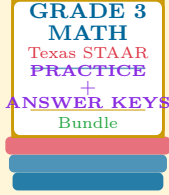
1. Ones:  $4 + 3 = 7$ . Tens:  $3 + 5 = 8$ . Hundreds:  $1 + 2 = 3$ . No carrying needed.  **Answer:** 387
2. Ones:  $1 + 7 = 8$ . Tens:  $6 + 2 = 8$ . Hundreds:  $4 + 3 = 7$ . No carrying needed.  **Answer:** 788
3. Ones:  $6 + 5 = 11$ , write 1, carry 1. Tens:  $1 + 8 + 4 = 13$ , write 3, carry 1. Hundreds:  $1 + 2 + 1 = 4$ .  **Answer:** 431
4. Ones:  $9 + 6 = 15$ , write 5, carry 1. Tens:  $1 + 0 + 7 = 8$ . Hundreds:  $5 + 3 = 8$ .  **Answer:** 885
5. Ones:  $8 + 2 = 10$ , write 0, carry 1. Tens:  $1 + 4 + 5 = 10$ , write 0, carry 1. Hundreds:  $1 + 3 + 4 = 8$ .  **Answer:** 800
6. Ones:  $5 + 8 = 13$ , write 3, carry 1. Tens:  $1 + 7 + 6 = 14$ , write 4, carry 1. Hundreds:  $1 + 1 + 6 = 8$ .  **Answer:** 843
7. Ones:  $4 + 8 = 12$ , write 2, carry 1. Tens:  $1 + 9 + 1 = 11$ , write 1, carry 1. Hundreds:  $1 + 2 + 5 = 8$ .  **Answer:** 812
8. Ones:  $7 + 5 = 12$ , write 2, carry 1. Tens:  $1 + 3 + 8 = 12$ , write 2, carry 1. Hundreds:  $1 + 6 + 1 = 8$ .  **Answer:** 822
9. Ones:  $9 + 1 = 10$ , write 0, carry 1. Tens:  $1 + 2 + 7 = 10$ , write 0, carry 1. Hundreds:  $1 + 4 + 3 = 8$ .  **Answer:** 800
10. Ones:  $6 + 8 = 14$ , write 4, carry 1. Tens:  $1 + 5 + 7 = 13$ , write 3, carry 1. Hundreds:  $1 + 5 + 2 = 8$ .  **Answer:** 834
11. Ones:  $3 + 7 = 10$ , write 0, carry 1. Tens:  $1 + 0 + 9 = 10$ , write 0, carry 1. Hundreds:  $1 + 1 + 8 = 10$ , write 0, carry 1 (becomes the thousands).  **Answer:** 1,000
12. Ones:  $8 + 4 = 12$ , write 2, carry 1. Tens:  $1 + 4 + 6 = 11$ , write 1, carry 1. Hundreds:  $1 + 7 + 1 = 9$ .  **Answer:** 912

**Word Problems**

1.  $374 + 289$ :  $4+9=13$  (write 3, carry 1);  $1+7+8=16$  (write 6, carry 1);  $1+3+2=6$ . Total: 663 cans.  **Answer:** 663 cans
2.  $156 + 247$ :  $6+7=13$  (write 3, carry 1);  $1+5+4=10$  (write 0, carry 1);  $1+1+2=4$ . Total: 403 pages.  **Answer:** 403 pages

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