Subtracting with an Expanded **Algorithm**

Apple Hill is 568 feet high. Banana Hill is 293 feet high. How many feet higher is Apple Hill than Banana Hill?

Find 568 - 293.

Step 1

568 - 293 = ?

Start with 568.

Subtract the 2 hundreds in 293.

$$568 - 200 = 368$$

So far. 200 has been subtracted.

Step 2

Now. start with 368.

Subtract the **9 tens** in 2**9**3.

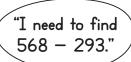
There are not enough tens. So, subtract the 6 tens that are there.

$$368 - 60 = 308$$

308 - 30 = 278

Then, subtract the tens that are left.

$$9 \text{ tens} - 6 \text{ tens} = 3 \text{ tens}$$



Step 3

Start with 278.

Subtract the 3 ones in 29**3**.

$$278 - 3 = 275$$

In all 200 + 60 + 30 + 3 =293 has been subtracted.

> Apple Hill is 275 feet higher than Banana Hill.

1. Follow these steps to find 576 - 471. **2.** Follow these steps to find 365 - 138.

First subtract 400.

Then, subtract 70.

Then, subtract 1.

First subtract 100.

Then, subtract 30.

Then, subtract 5.

Then, subtract 3.

- **3.** Find 756 602. **4.** Find 848 276.
- **5.** Find 641 139.

- **6.** Sue's story is 367 words long. Rob's story is 296 words long. How many more words does Sue's story have than Rob's?
- **7. Reason** Find 496 217. Were there enough ones to subtract? How did you know?

Subtracting with an Expanded Algorithm

1. Follow these steps to find 879 – 659.

First subtract 600.

Then, subtract 50.

Then, subtract 9.

3. Follow these steps to find 564 - 117.

First subtract 100.

Then, subtract 10.

Then, subtract 4.

Then, subtract 3.

- **5.** Find 684 362.
- **7.** Find 479 283.
- 9. Eric and Kim are on a game show. Eric has 583 points. Kim has 349 points. How many more points does Eric have than Kim?

2. Follow these steps to find 775 – 431.

First subtract 400.

Then, subtract 30.

Then, subtract 1.

4. Follow these steps to find 428 - 275.

First subtract 200.

Then, subtract 20.

Then, subtract 50.

Then, subtract 5.

- 6. Find 208 135.
- **8.** Find 614 153.
- 10. Reason Malcolm is trying to find 775 – 342. He subtracts hundreds first, then tens, then ones. What three numbers did Malcolm subtract to find the answer?
- 11. Communicate Kyle is making a building out of blocks. So far his building is made up of 129 blocks. When his building is finished, it will have 275 blocks. How many more blocks does Kyle need to finish his building? Explain how you found your answer.
- **12.** Which of the following shows the numbers that can be subtracted to find 395 129?
 - **A** 300, 90, 5
- **B** 900, 20, 1
- **C** 100, 20, 9, 5
- **D** 100, 20, 5, 4