G4-M3-Lesson 29

1. Divide, and then check using multiplication.

   $3,268 \div 4$
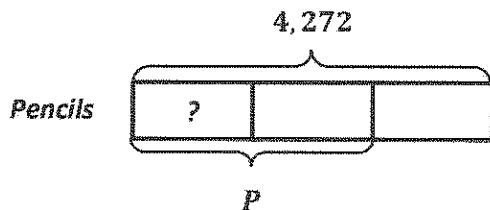
   ```
        8  1  7
   4 | 3, 2  6  8
     - 3  2
        0  6
        -  4
           2  8
         - 2  8
              0
   ```

   > I divide just as I learned to in Lessons 16, 17, 27, and 28. The challenge now is that the whole is larger, so I record the steps of the algorithm using long division and not using the place value chart.

   ```
        8  1  7
   ×          4
   _____
   3, 2  6  8
   ```

   > I check the answer by multiplying the quotient and the divisor. The product is equal to the whole.

2. A school buys 3 boxes of pencils. Each box has an equal number of pencils. There are 4,272 pencils altogether. How many pencils are in 2 boxes?

   4,272

   Pencils | ? | | |

   P

   > 3 units are equal to 4,272 pencils. I need to solve for how many pencils are in 2 units.

   ```
        1, 4  2  4
   3 | 4, 2  7  2
     - 3
        1  2
      - 1  2
           0  7
         -    6
              1  2
            - 1  2
                 0
   ```

   ```
        1, 4  2  4
   ×             2
   _____
        2, 8  4  8
   ```

   There are 2,848 pencils in 2 boxes.

   > I multiply by 2 to determine how many pencils are in 2 units.

   > I find how many pencils are in 1 unit by dividing 4,272 by 3. There are 1,424 pencils in 1 unit.