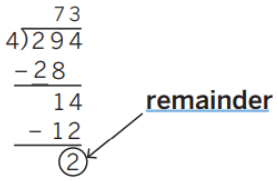
Sub-Unit 3 | Summary

In this sub-unit . . .

- We learned that when dividing numbers, any amount left is called a **remainder**.

Maile is packing 294 lei into boxes. Each box can hold up to 4 lei.
How many boxes are needed to pack all the lei?

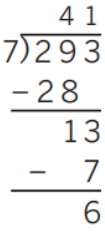


Maile needs 74 boxes to fit all the lei.

Math tip: The remainder should be less than the divisor. Otherwise, you can make more equal groups.

- We used the context of problems to determine what to do with the remainder.

There are 293 players signed up for a basketball league. The league wants to place 7 players on each team and distribute any leftover players to make some 8-player teams. Determine the number of 7- and 8-player teams.



293 divided by 7 is 41 with a remainder of 6.
35 teams will have 7 players. 6 teams will have 8 players

- We solved problems that required more than 1 step including two-step division and multiplication problems.

Pat's Lei Shop spent $972 on cooling packets. Each cooling packet costs $9.
Each box of lei needs 5 cooling packets. How many full boxes of lei can the shop prepare?

$972 divided by $9 is the first step to find how many packets Pat's Lei shop has.

```
      1 0 8
   ┌──────
 9 │ 9 7 2
   - 9
   ─────
     7 2
```

Then, divide the 108 packets by 5 to find out how many boxes they can pack. They can pack 5 boxes of lei's and will have 3 cooling packets left over.

```
        2 1
   ┌──────
 5 │ 1 0 8
   - 1 0
   ─────
       8
     - 5
     ─────
       (3)
```

- When using division to solve two-step story problems, sometimes the final division calculation results in a remainder. To solve the story problem, it is important to use the context of the problem to interpret the remainder.