Name: _____ More on Remainders

READ THIS CAREFULLY!

Whenever you have a division problem that is just straight arithmetic— e.g. something like 134 ÷ 9, you **MUST** include the remainder with your answer.

The answer to the simple arithmetic problem 134 ÷ 9 is **NOT** 14 (or 15); it is **14 R8**.

On the other hand, if you have a word problem that asks a question, You **MUST** *answer the question*. How you deal with the remainder depends on the *question* you are being asked.

Remember what the remainder is. It's what's left over after you've divided the dividend into equal groups (groups of the same size).

If the problem wants you to use up **all** of what's being divided (the dividend)—and the size of the group isn't important, then you need to make an *extra* group for what's left over after you've divided into equal groups— (e.g. you want to divide up **all** of the dividend into groups that can be **at most** so large, or that can hold **no more than** so many.)

However, if what's important is the size of the group—i.e. you only want groups of the exact same size—then the remainder is just extra; it's not needed.

When you do math you must ask yourself what it is you are trying to do? Do you only want *groups that are all equal*? Or do you want to fit *everything* into a group, even if the groups are not the same size?

Now work these problems:

1. *This is an arithmetic problem—not a word problem. Remember the remainder!*

713 ÷ 5 = _____

OVER→

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2. You made 26 valentine cookies for your 9 best friends. If you divide them up so that each friend gets the *exact* same number of cookies, how many cookies will each friend get?

How many *more cookies would you need* to make, if you want each friend to get one more cookie?

3. You are packing 250 oranges into crates that hold at most 30 oranges each. What is the fewest number of crates you'll need to fit *all* the oranges?

What if you only have 7 crates? How many oranges can they hold?

How many extra oranges will there be?