Angela has several sheets of Valentine’s Day stickers. She wants to know how many stickers are on one sheet without counting each sticker. Angela knows that counting by ones will take a long time and can get confusing. She also knows that if she breaks the sheet into groups she can find out how many stickers there are in a more efficient way. Let’s help Angela find an efficient way to find the number of stickers on each sheet.

Let’s start by circling 5 rows of hearts.

1. How many hearts did she circle in 5 rows? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 What is the multiplication fact for this group?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Circle as many sections of five rows of stickers as possible from the leftover portion of the sheet. Write the multiplication fact that tells you how many stickers are in each section you circle.

3. How many rows of stickers are left over now?\_\_\_\_\_\_\_

 Circle and label this array with the multiplication fact that tells you how many stickers are on the leftover portion.

4. Using your circled arrays, find out how many stickers are on the entire sheet. Record how you did it below.

5. Using what Angela did on the first sheet, how can we find another way to group the stickers into smaller arrays by circling the rows of 8 to help find the total number of stickers on the sheet? Be sure to label the arrays with the multiplication facts that match. Using the circled arrays, record how you found the total number of stickers on the second sheet.

6. Are the totals of each sheet the same? Why do you think this happened?

7. How many stickers are in each row of one sheet?\_\_\_\_\_\_

 How many rows of stickers are on one sheet? \_\_\_\_\_

 The total number of stickers can be found by multiplying \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_.

8. Angela also has a sheet of smiley face stickers. Using what you did in the first two sheets, can you help Angela find how many stickers are on the third sheet? Take the third sheet of stickers and circle groups in an efficient way that will give you the correct number of stickers easily without counting each sticker. Describe what you did on the back of this sheet.