Name:_	Answer	KLY	Date:
	Mid-Modul	e Ass	essment Lessons 1-10 Study Guide

- 1.Ms. Cathy plants 3 rows of 4 peppers in her garden.
- a. Draw an array that represents Ms. Cathy's peppers. Use an X to show each carrot

$$5 \times 4 = 20 \left\{ \begin{array}{l} x \times x \times x \\ x \times x \times x \\ 0 & 0 & 0 \end{array} \right\} 3 \times 4 = 12$$

$$5 \times 4 = 20 \left\{ \begin{array}{l} x \times x \times x \\ x \times x \times x \\ 0 & 0 & 0 \end{array} \right\} 3 \times 4 = 8$$

- b. Ms. Cathy adds 2 more rows of 4 peppers to her garden.
  - Use circles to show her new peppers on the array in Part (a).
  - Fill in the blanks below to show how she added the five rows.

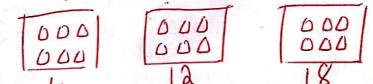
$$\frac{3}{5}$$
 fours +  $\frac{2}{5}$  fours =  $\frac{5}{5}$  fours

- Write a sentence to explain your thinking. I Then she added Ms. Cathy planted 3 rows of M. Then she added a more rows of M for a total of 5 rows of M peppers.
- c. Find the total number of peppers that Ms. Cathy planted.

d. Write a multiplication sentence to describe the array representing the total number of peppers Ms. Cathy planted.

- 2. Ms. Cathy picks 18 onions from her garden. She puts 6 onions in a bag.
- a. Draw Ms. Cathy's onions.







b. Write a multiplication sentence that describes your drawing in Part (a).

3. Ms. Cathy plants 15 tulips in her garden. She plants them in 3 rows.

a. Fill in the blanks below to make a true division sentence. What does the

answer represent?

\* Remember that part (b) still connects

b. Ms. Cathy adds two more identical rows of tulips to her original 5 rows. Draw an array to show how many flowers she has now.

$$5 \times 5 = 25$$
  $\begin{cases} x \times x \times x \\ x \times x \times x \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{cases}$   $2 \times 5 = 10$ 

c. Ms. Cathy figured out how many flowers she planted. Her work is shown in the box below. Would Ms. Cathy get the same result if she multiplied 5x5? Explain why or why not.

$$(3x5) + (2x5) = 15 + 10 = 25$$

Yes, she would get the same result! Her work shows that  $(3\times5)+(3\times5)$  is the same thing as  $(3+2)\times5=5\times5$  or 25