Enrichment Packet #5

Due: Monday 10/8

NAME: _____

Name _____

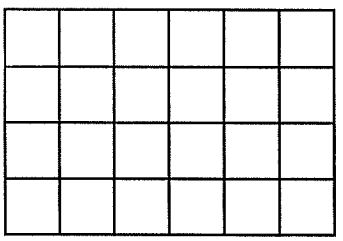
Enrichment
3-3

How Does Your Garden Grow?

Visual Thinking

Area is the name for the number of square units that are in a given space. You can figure out the area of a rectangle as you would an array. You can also break apart a rectangle to form different combinations and still have the same area.

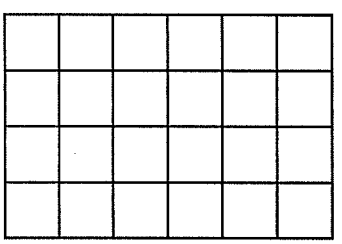
Here is Mary's garden: $4 \times 6 = 24$ square units.



Enrichment 3-3

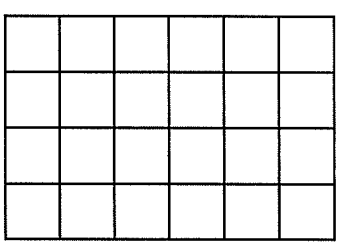
Draw lines and write the first letter of the flower to show several possible planting plans.

1.



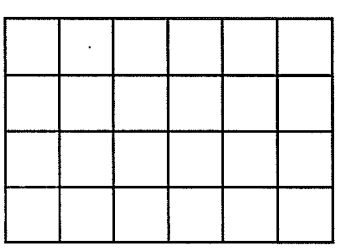
2×6 = tulips
2×4 = roses
2×2 = marigolds

2.



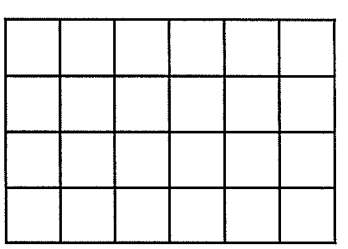
4×4 = tulips
2×2 = roses
2×2 = marigolds

3.



3×4 = tulips
1×6 = roses
3×2 = marigolds

4.



4×5 = tulips
3×1 = roses
1×1 = marigolds

Name _____

Enrichment
3-4

Recycling Numbers

Patterns

Miles and Cynthia participated in a weeklong recycling project. Cynthia collected 4 cans every day, and Miles collected 3 cans every day.

1. Fill in the table to show how many cans each student has collected by the end of each day.

Days	1	2	3	4	5	6	7
Miles	3	6					
Cynthia	4	8					

2. At the end of the week, how many cans did Cynthia collect?

_____

3. At the end of the week, how many cans had Miles collected?

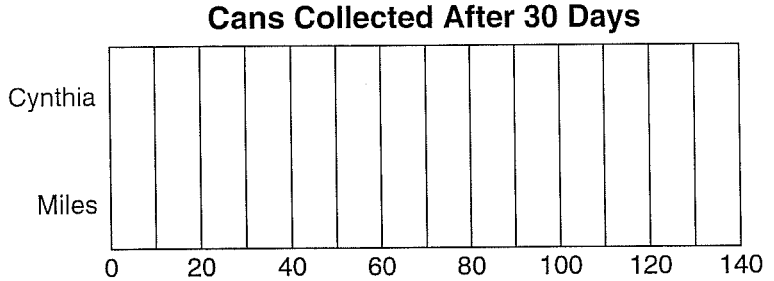
_____

4. If the pattern had continued for another week, a total of 14 days, how many cans would Cynthia have collected? How many would Miles have collected?

_____

5. The project was such a success, it was continued for 30 days. Complete the bar graph to compare the total cans collected by Miles and Cynthia.

Cans Collected After 30 Days



Name _____

Enrichment
3-5

Cube Turning

Visual Thinking

A lettered cube has 6 sides with a different letter on each side. Each letter can be shown in 4 different positions.

1. How many different ways can the cube be displayed?

_____

Fill in the missing letters in the position they would be seen on the cube. The first one has been done for you as an example.

Example: 

2. 

3. 

4. 

5. 

6. 

Name _____

Enrichment
3-6

Break the Codes

Visual Thinking

The symbols in each set of problems represent whole numbers. Break the codes.

Hint: Here's how you might break one code.

@ + ▲ = 27 @ + @ = 24	Think: @ + @ = 24 is a double. The two addends are the same, so @ = 12. Since 27 − 12 = 15, ▲ = 15.

Enrichment 3-6

1. ⚡ × ⊙ = 11

⊙ × ⊙ = 1

⚡ = ___, ⊙ = ___

2. ☆ × ◇ = 33

◇ × ◇ = 9

☆ = ___, ◇ = ___

3. ⇦ − Y = 8

Y × ⇦ = 48

⇦ = ___, Y = ___

4. ✇ × ▨ = 28

▨ × ▨ = 16

✇ = ___, ▨ = ___

5. ⬡ + ⩚ = 12

⩚ × ⩚ = ⬡

⬡ = ___, ⩚ = ___

6. ▲ × ∿ = ▲

▲ − ∿ = 11

▲ = ___, ∿ = ___

7. ▭ + ▭ = 18

▣ × ▭ = 90

▭ = ___, ▣ = ___

8. 🍦 × ◭ = 16

🍸 × ◭ = 40

◭ × ◭ = 64

🍸 = ___, 🍦 = ___, ◭ = ___