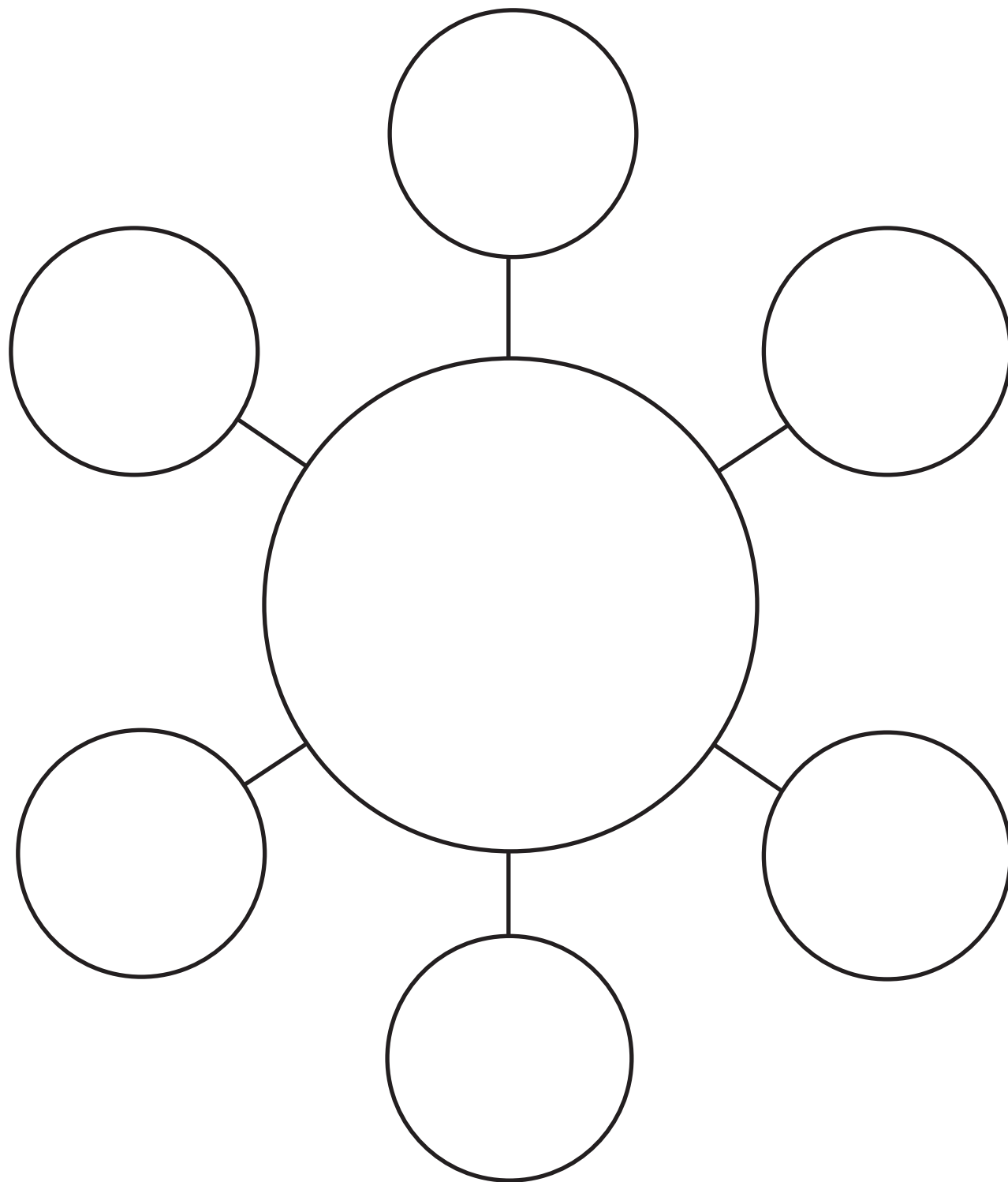


Name \_\_\_\_\_ Date \_\_\_\_\_

## MATH EXTENSION A

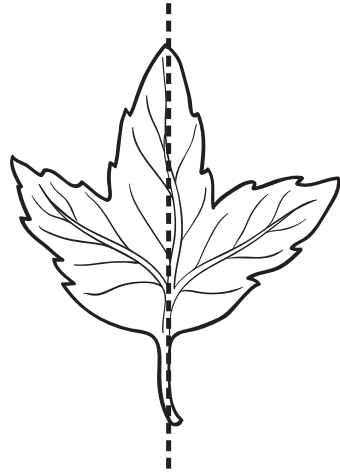
.....  
Investigation 1: Grass and Grain Seeds



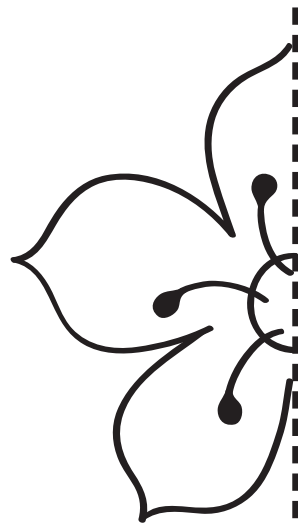
## MATH EXTENSION B

### Investigation 1: Grass and Grain Seeds

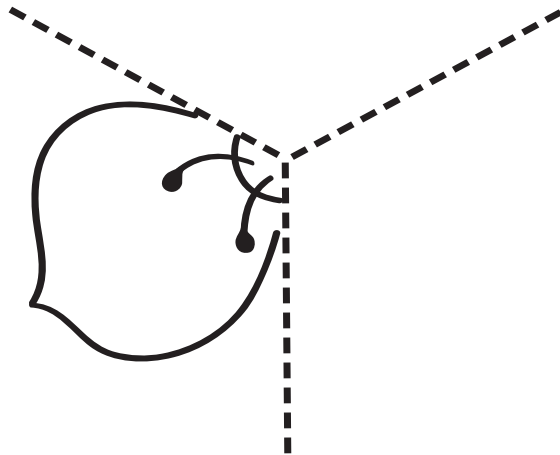
Many flowers and leaves look the same on both sides, like this.



1. Color in the half leaf and half flower below.
2. Copy the pattern on the other side to make a whole flower or leaf. Color it.



3. Try a three-part pattern!



Name \_\_\_\_\_ Date \_\_\_\_\_

## **MATH EXTENSION A**

### ..... Investigation 2: Stems

A girl found a potato. She saw four nodes on it. She cut it into four parts and planted it. She watered it and waited.

Stems and leaves grew from each potato part. Underground, each potato part grew five new potatoes.

How many new potatoes did the girl grow in all?

Name \_\_\_\_\_ Date \_\_\_\_\_

## **MATH EXTENSION B**

.....  
**Investigation 2: Stems**

Pretend that your class has an old ivy plant that is growing too big. If every student in your class makes a new plant from an old stem, how many plants would you have?

If your class sells all the new plants for a dime each, how much money would your class have?

Name \_\_\_\_\_ Date \_\_\_\_\_

## **MATH EXTENSION A**

### Investigation 3: Terrariums

A girl and a boy each set up a terrarium at home. When the girl counted the plants and animals in her terrarium, the total was 17. When the boy counted the plants and animals in his terrarium, the total was 6 less than the girl's. How many plants and animals did the boy have in his terrarium?

The girl and boy decided to put their plants and animals together in a larger terrarium. How many plants and animals in all will be in this new terrarium?

Name \_\_\_\_\_ Date \_\_\_\_\_

## **MATH EXTENSION B**

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### Investigation 3: Terrariums

Some students are setting up terrariums in their classroom. They have a total of 20 worms to place in their four terrariums. What are different ways they could put the 20 worms in the terrariums? (The number of worms does not have to be the same in each terrarium.)

Name \_\_\_\_\_ Date \_\_\_\_\_

## **MATH EXTENSION A**

### **Investigation 4: Growth and Change**

A boy wanted to plant some bulbs in a barrel. He needed to plant them in the fall so they would bloom in the spring.

He went to the nursery and bought five tulip bulbs and six daffodil bulbs. In the spring, all the bulbs grew except for one tulip and one daffodil.

How many bulbs did the boy have blooming in the spring?

Name \_\_\_\_\_ Date \_\_\_\_\_

## **MATH EXTENSION B**

### Investigation 4: Growth and Change

Garlic bulbs grow in a bunch called a head. A head of garlic can be split into six little bulbs.

Each little bulb can grow into a plant. When the plant is grown, garlic flowers bloom. Before the plant dies, it makes a new head with six little bulbs under the ground.



A girl had one head of garlic. She planted each of the bulbs and soon had flowers blooming in her garden.

She wanted more plants blooming in her garden next year. She dug up the garlic heads after the plants died, so she could save the bulbs.

How many bulbs do you think she will be able to plant next year?