



Barnard College	Columbia University	New York University
Ms. Park	Ms. Hildebrand	Ms. Severino

Monday, May 17th

Name:



# Multiplication as repeated addition

Write how many.

There are  groups.

There are  in each group.

You can add.

You can multiply.



$$\boxed{2} + \boxed{2} + \boxed{2} = \boxed{6}$$

$$\boxed{3} \text{ twos} = \boxed{6}$$

$$\boxed{3} \times \boxed{2} = \boxed{6}$$

Write how many.



$$2 + 2 + 2 + 2 = \boxed{\phantom{00}}$$

$$4 \text{ twos} = \boxed{\phantom{00}}$$



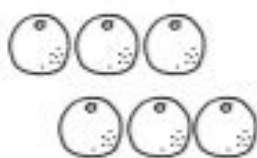
$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} \text{ twos} = \boxed{\phantom{00}}$$



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} \text{ twos} = \boxed{\phantom{00}}$$



$$3 + 3 = \boxed{\phantom{00}}$$

$$2 \text{ threes} = \boxed{\phantom{00}}$$



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} \text{ threes} = \boxed{\phantom{00}}$$



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} \text{ threes} = \boxed{\phantom{00}}$$

Write how many.



How many groups?

How many in each group?

Write as addition.

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

Write as multiplication.

$$\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



How many groups?

How many in each group?

Write as addition.

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

Write as multiplication.

$$\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Write a repeated addition equation to show the number of objects in each group. Then, find the total.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

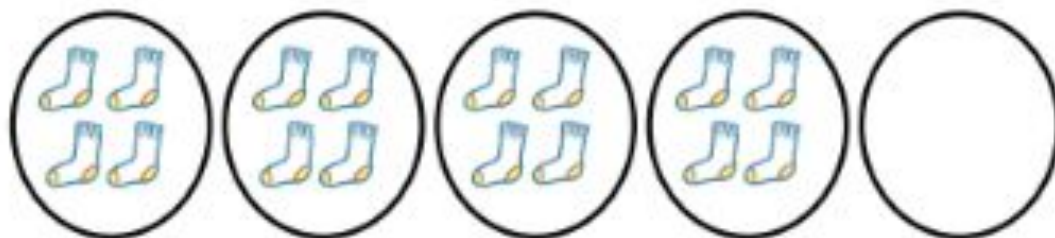
3 groups of \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

4 groups of \_\_\_\_\_ = \_\_\_\_\_

2. Draw 1 more group of four. Then, write a repeated addition equation to match.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

5 groups of \_\_\_\_\_ = \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Write a repeated addition equation to show the number of objects in each group. Then, find the total.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

3 groups of \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

4 groups of \_\_\_\_\_ = \_\_\_\_\_

2. Draw 1 more equal group.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

5 groups of \_\_\_\_\_ = \_\_\_\_\_

3. Draw 1 more group of four. Then, write a repeated addition equation to match.



$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \text{ groups of } 4 = \underline{\quad}$$

4. Draw 2 more equal groups. Then, write a repeated addition equation to match.



$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

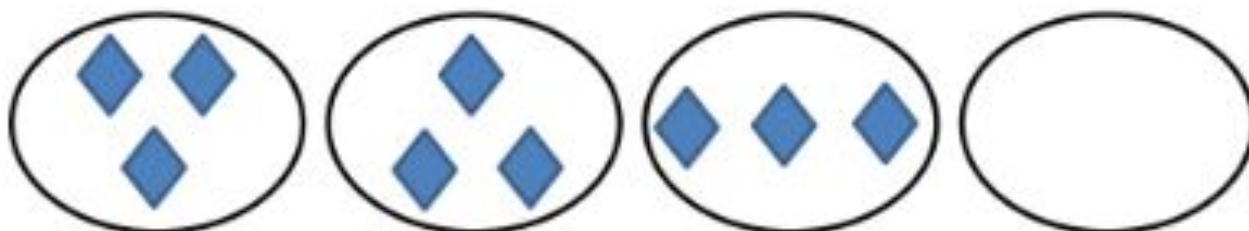
$$\underline{\quad} \text{ groups of } 4 = \underline{\quad}$$

5. Draw 4 groups of 3 circles. Then, write a repeated addition equation to match.

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Draw 1 more equal group.



$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

4 groups of  $\underline{\quad}$  =  $\underline{\quad}$

2. Draw 2 groups of 3 stars. Then, write a repeated addition equation to match.

## Questions about *A Place for Butterflies*

**Directions:** Read the first eight pages of *A Place for Butterflies*

1. The author writes that many butterflies “feed on” nectar. What does “feed on” mean?
  - a. Remove nectar
  - b. Make nectar
  - c. Eat nectar
  
2. According to the book, what kind of nectar do many adult butterflies feed on?  

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3. Why does the author think people should protect forests?
  - a. Because some butterflies eat leaves from trees
  - b. Because some butterflies build nests in trees
  - c. Because some butterflies eat sap from tree
  
4. What is one reason that people should let some wildfires burn?
  - a. Some forests can be made into butterfly gardens.
  - b. Some butterflies eat plants growing on burned land.
  - c. Some butterflies eat the bark of burned trees.

Name: \_\_\_\_\_

ch	ph	sh

lunchroom	inches	sunshine	beaches
kitchen	milkshake	cushion	dishes
elephant	alphabet	telephone	teacher
wishing	mushroom	ketchup	nephew





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Tuesday, May 18th

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Write a repeated addition equation to match the picture. Then, group the addends into pairs to show a more efficient way to add.

a.



$$\begin{array}{ccccccc} \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ \backslash & & / & & \backslash & & / & & \\ \underline{\quad} & & + & & \underline{\quad} & & = & & \underline{\quad} \end{array}$$

4 groups of \_\_\_\_\_ = 2 groups of \_\_\_\_\_


b.



$$\begin{array}{ccccccc} \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ & & & & & & & & \\ & & & & \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \end{array}$$

4 groups of \_\_\_\_\_ = 2 groups of \_\_\_\_\_

c.




\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

8 groups of \_\_\_\_\_ = 4 groups of \_\_\_\_\_

2. Write a repeated addition equation to match the picture. Then, group addends into pairs, and add to find the total.

a.




\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + 3 = \_\_\_\_\_

\_\_\_\_\_ + 3 = \_\_\_\_\_

b.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + 3 = \_\_\_\_\_





\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

4 groups of \_\_\_\_\_ = 2 groups of \_\_\_\_\_

2. Write a repeated addition equation to match the picture. Then, group addends into pairs, and add to find the total.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + 3 = \_\_\_\_\_

\_\_\_\_\_ + 3 = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + 2 = \_\_\_\_\_

\_\_\_\_\_ + 2 = \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Write a repeated addition equation to match the picture. Then, group the addends into pairs to show a more efficient way to add.



$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

4 groups of  $\underline{\quad}$  = 2 groups of  $\underline{\quad}$

## “Help Protect Butterflies!”

1	Butterflies are important pollinators. They help the plants we eat to grow. Some butterflies are in danger, though. Weather patterns around the world are changing. Changes in weather can cause problems for butterflies.
2	These changes in weather can be a problem for butterflies for many reasons. The changes in weather can cause a drought. A drought is a long time with little or no rain. The plants that caterpillars eat can't grow without rain. These changes in weather can also kill flowers. Then butterflies cannot get enough to eat.
3	The changes in weather also cause strong storms. Storms are a big problem for butterflies. Heavy rain can damage their wings. Even a single raindrop can harm a butterfly! But butterflies can stay safe if there are plants where they can hide.
4	Changing weather also affects the temperature outside. This is another problem for butterflies. The change in temperature can affect when butterflies <b>reproduce</b> and <b>migrate</b> . Butterflies may do these things at the wrong time if the temperature gets too hot or too cold.
5	Butterflies can be in danger from changing weather patterns. Let's help butterflies by protecting the places they live.

Glossary:

**Reproduce:** to make a new plant, human, or animal like oneself.

**Migrate:** to change habitat or location.

Name \_\_\_\_\_

Write the word	Add -s	Add -ed

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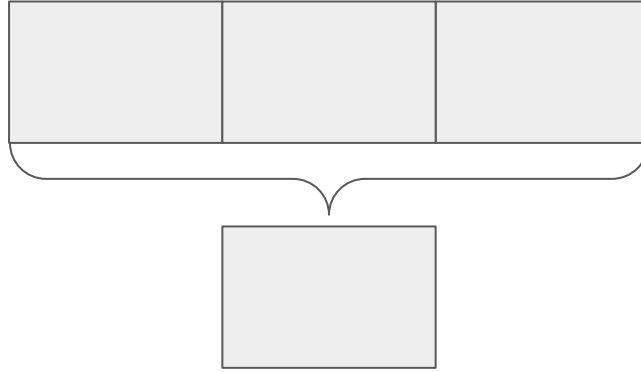




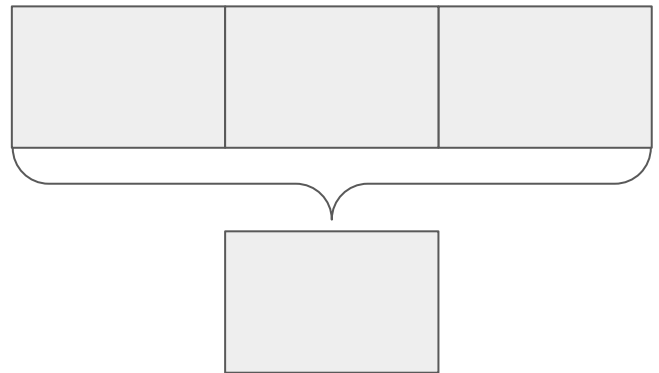
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Wednesday, May 19th

1. There are 2 apples in Jane's bag, 3 apples in Sam's bag, and 1 apple in Ann's bag. How many apples do the children have in all?

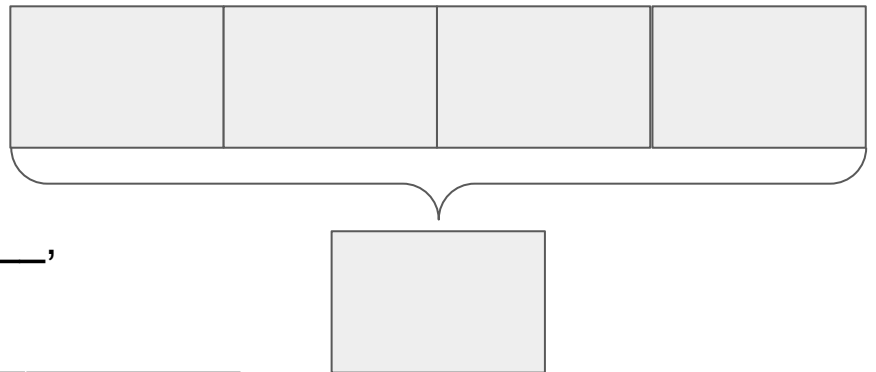


2. How would this model be different if there were equal groups of 2 apples in each bag?

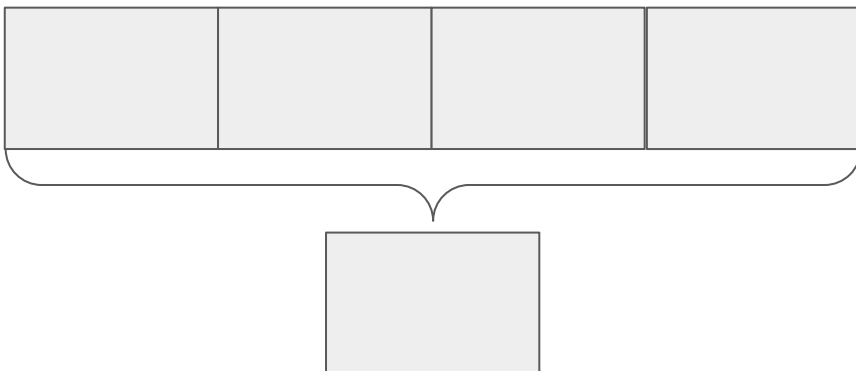


We now have \_\_\_\_ groups of \_\_\_\_

3. Now we have a tape diagram with 4 parts. Draw to show 2 dots in the first box, three in the second, 5 in the third, and 2 in the last group.



Are all the groups equal? \_\_\_\_\_,  
Let's make them into equal!



Name \_\_\_\_\_

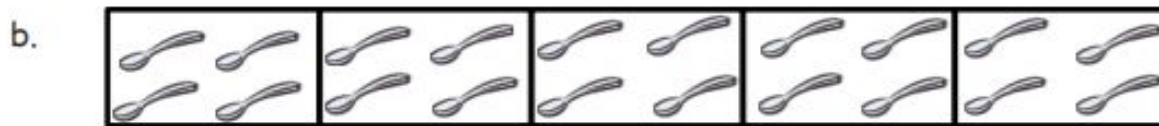
Date \_\_\_\_\_

1. Write a repeated addition equation to find the total of each tape diagram.



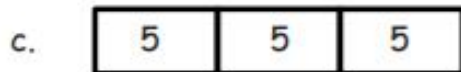
\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

4 groups of 2 = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

5 groups of \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

3 groups of \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ groups of \_\_\_\_\_ = \_\_\_\_\_

2. Draw a tape diagram to find the total.

a.  $3 + 3 + 3 + 3 = \underline{\hspace{2cm}}$

b.  $4 + 4 + 4 = \underline{\hspace{2cm}}$

c. 5 groups of 2

d. 4 groups of 4



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

1. Write a repeated addition equation to find the total of each tape diagram.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

4 groups of 3 = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

5 groups of \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

4 groups of \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ groups of \_\_\_\_\_ = \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Draw a tape diagram to find the total.

1.   

2. 3 groups of 3

3.  $2 + 2 + 2 + 2 + 2$

## “Help Protect Butterflies!”

1	Butterflies are important pollinators. They help the plants we eat to grow. Some butterflies are in danger, though. Weather patterns around the world are changing. Changes in weather can cause problems for butterflies.
2	These changes in weather can be a problem for butterflies for many reasons. The changes in weather can cause a drought. A drought is a long time with little or no rain. The plants that caterpillars eat can't grow without rain. These changes in weather can also kill flowers. Then butterflies cannot get enough to eat.
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Glossary:

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**Migrate:** to change habitat or location.

Protecting Pollinators Research Notebook - Page 6  
**Dangers That Butterflies Face and Reasons  
Butterflies Are Important: Student Notes**

RI.2.1, RI.2.2, RI.2.4

**Directions:** *Work with your partner to write notes from A Place for Butterflies below.*

**Dangers That Butterflies Face**

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Thursday, May 20th

## Concept development: Problem #1

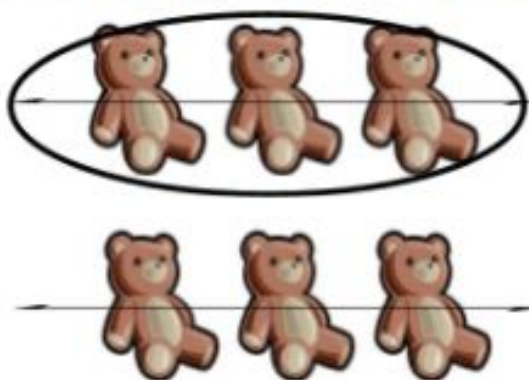
An array is a set that shows equal groups in \_\_\_\_\_ and \_\_\_\_\_.

1. Circle the bears so there are 2 groups



a. \_\_\_\_\_ groups of \_\_\_\_\_ bears = \_\_\_\_\_

2. If I put the bears into an array in **rows** it would go **across**, or \_\_\_\_\_ to \_\_\_\_\_, like this.



**Row 1**

**Row 2**

A.

I have 10 pumpkins, circle groups of 5.  
Then, draw the pumpkins into 2 rows.



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B.

I have 12 triangles. Circle groups of 4 and draw them into 3 rows.



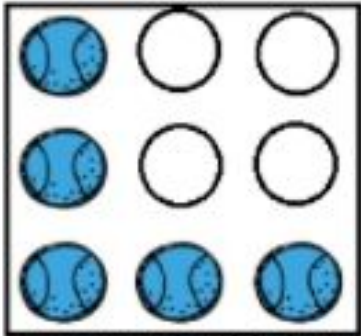
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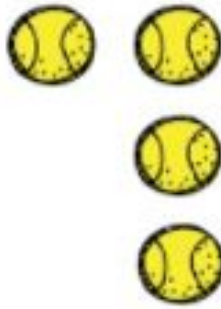
8. Complete the array:

Example!



An array should always be a full rectangle!

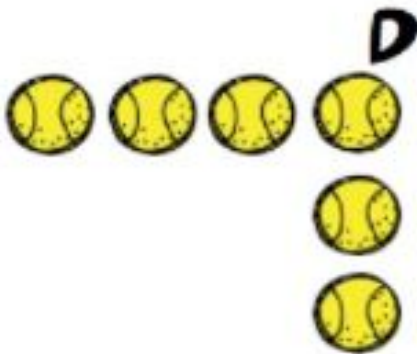
**A**



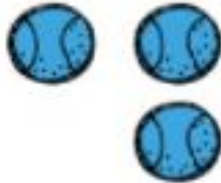
**B**



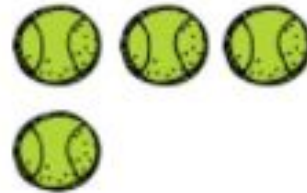
**C**



**D**



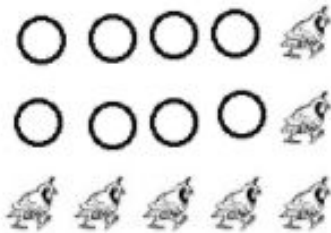
**E**



**F**

9. More practice:

Example!



An array should always be a full rectangle!

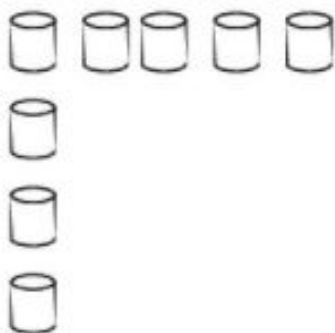
**A**



**B**



**C**



**D**



**E**

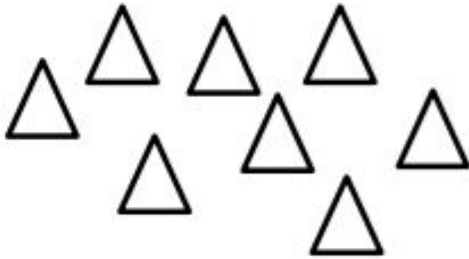


**F**

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Circle groups of four. Then, draw the triangles into 2 equal rows.




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2. Circle groups of two. Redraw the groups of two as rows and then as columns.

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3. Circle groups of three. Redraw the groups of three as rows and then as columns.

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Name \_\_\_\_\_

Date \_\_\_\_\_

1. Circle groups of three. Redraw the groups of three as rows and then as columns.

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2. Complete the array by drawing more triangles. The array should have 12 triangles in all.





# Dangers That Butterflies Face and Reasons Butterflies Are Important: Class Notes



Dangers That Butterflies Face

Reasons Butterflies Are Important to Plants

Reasons Butterflies Are Important to Animals



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Friday, May 21st

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Complete each missing part describing each array.

Circle rows.



5 rows of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Circle columns.



3 columns of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Circle rows.



4 rows of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Circle columns.



5 columns of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_



2. Use the array of triangles to answer the questions below.

a. \_\_\_\_ rows of \_\_\_\_ = 12

b. \_\_\_\_ columns of \_\_\_\_ = 12

c. \_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_

d. Add 1 more row. How many triangles are there now? \_\_\_\_

e. Add 1 more column to the new array you made in 2(d). How many triangles are there now? \_\_\_\_



3. Use the array of squares to answer the questions below.

a. \_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_

b. \_\_\_\_ rows of \_\_\_\_ = \_\_\_\_

c. \_\_\_\_ columns of \_\_\_\_ = \_\_\_\_

d. Remove 1 row. How many squares are there now? \_\_\_\_

e. Remove 1 column from the new array you made in 3(d). How many squares are there now? \_\_\_\_



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Complete each missing part describing each array.

Circle rows.



3 rows of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_\_

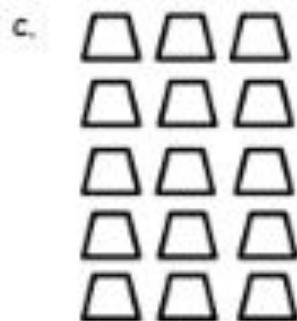
Circle columns.



4 columns of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_\_

Circle rows.



5 rows of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_\_

Circle columns.



3 columns of \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_\_

**Reasons Butterflies Are  
Important to Plants**

**Reasons Butterflies Are  
Important to Animals**

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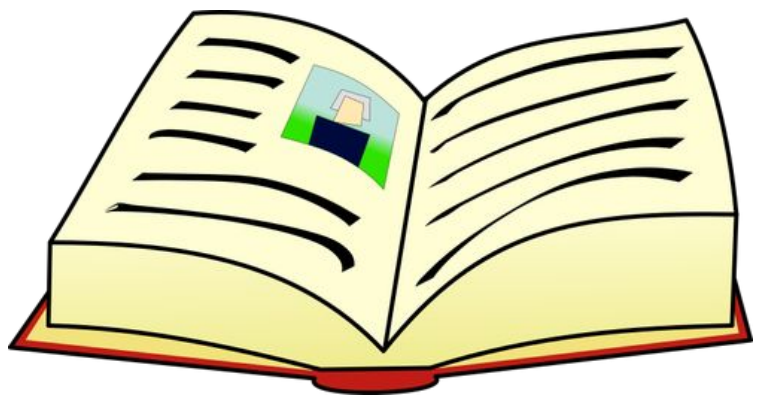


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# Close Reading

May 17-21

Name:



Name: \_\_\_\_\_

# Canoeing

Canoes have been around a long time! Today, canoes are used for recreation and sport activities. Some people are worried that canoes can turn over very easily, but if handled properly and with a little training canoes can be safe and fun.

Stay in the center of the canoe, hold onto the sides if needed, and avoid jerky movements. Life jackets should be worn while paddling a canoe and someone should know where you are going so that you will be safe. Paddles are used to propel and steer the canoe. Canoeing can be a fun way to see nature!



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## 1. Remembering: Main Idea

Who? \_\_\_\_\_ →  
What \_\_\_\_\_ →  
Why? \_\_\_\_\_ → \_\_\_\_\_

## 2. Understanding: Details

Write 3 sentences about what you remember or learned.

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## 3. Applying

Why would canoes be important to humans?

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#### **4. Analyzing**

What are some things you need to do to have a safe and fun trip in a canoe?

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#### **5. Evaluating**

What would you predict could happen if you did not practice paddling a canoe or following the instructions?

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#### **6. Creating**

Plan a trip somewhere in a canoe. Where would you travel?

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#### **7. Your Opinion**

Would you feel safe riding in a canoe?

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