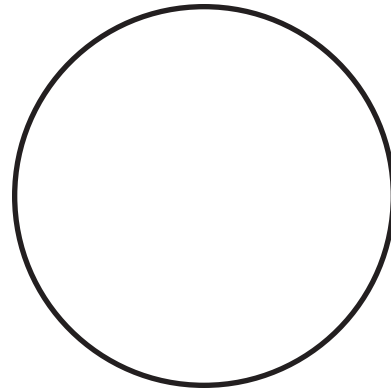
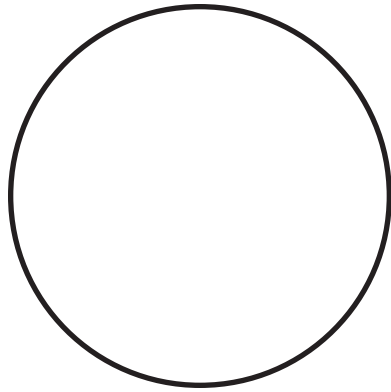


Name _____ Date _____

MATH EXTENSION A

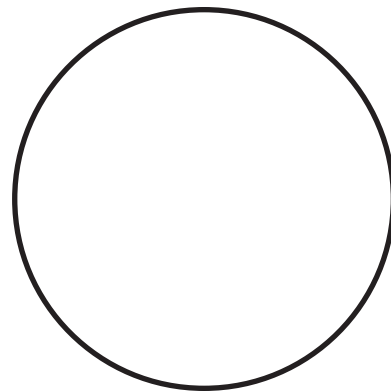
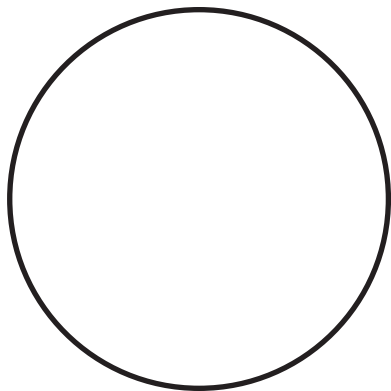
Investigation 1: First Rocks

1. Start with ____ rocks. Sort them into two groups. Label the groups.



Write a number sentence about your rock groups.

2. Start with ____ rocks. Sort them into two groups. Label the groups.



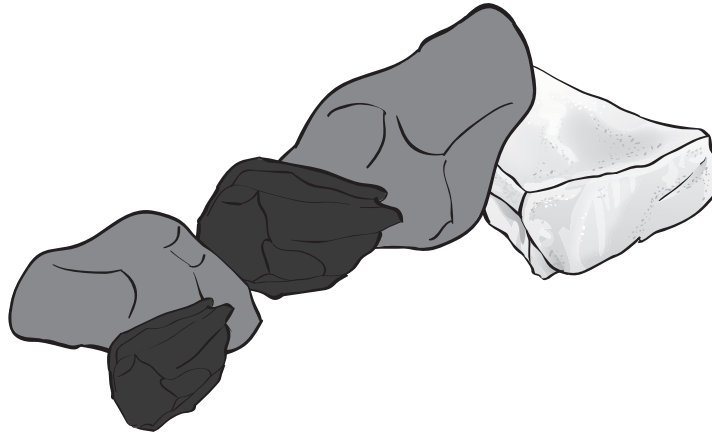
Write a number sentence about your rock groups.

Name _____

Date _____

MATH EXTENSION B

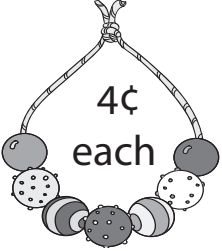
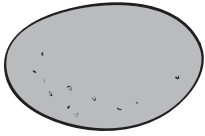



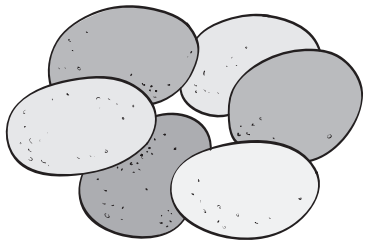
.....
Investigation 1: First Rocks



Write a story problem to go with this rock collection.

MATH EXTENSION A**Investigation 2: River Rocks**

Rocks for sale

 <p>4¢ each</p> <p>clay beads</p>	 <p>6¢ each river rock</p>	 <p>8¢ each scoria</p>	 <p>10¢ each mineral</p>
 <p>7¢ each polished pebbles</p>	 <p>5¢ each cobbles</p>		

1. A girl wants to buy a river rock, three clay beads, and a mineral.

How much money does she need?

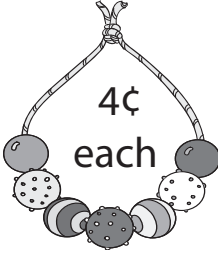
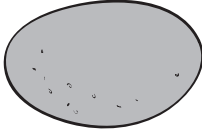



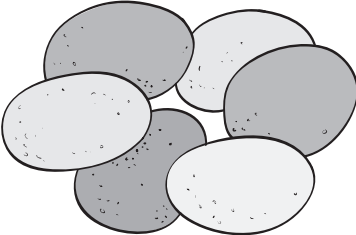
2. A boy wants to buy three cobbles, two polished pebbles, and a piece of scoria.

How much money does he need?

MATH EXTENSION B

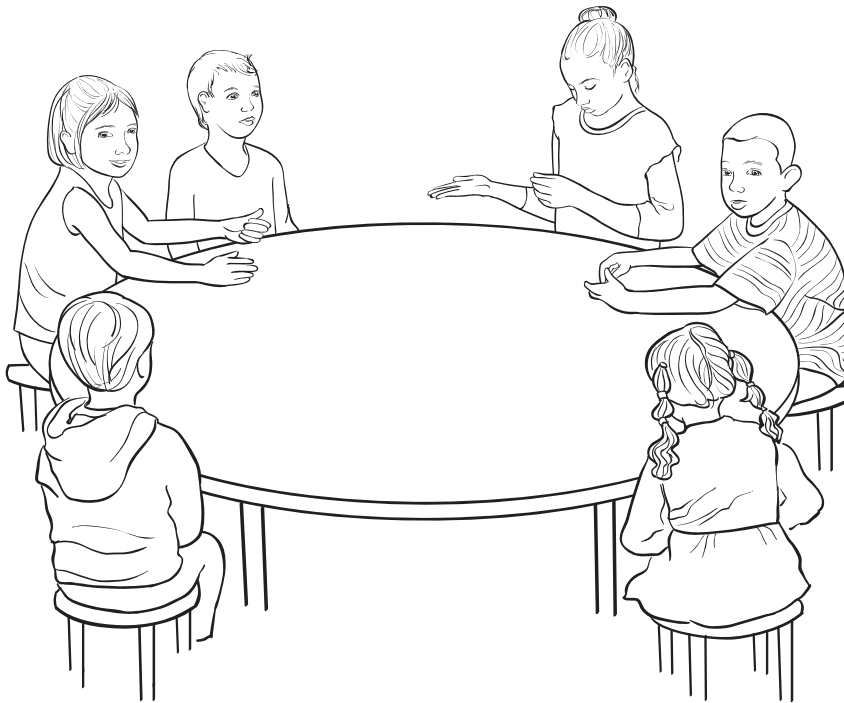
Investigation 2: River Rocks

Rocks for sale

 <p>4¢ each</p> <p>clay beads</p>	 <p>6¢ each river rock</p>	 <p>8¢ each scoria</p>	 <p>10¢ each mineral</p>
 <p>7¢ each polished pebbles</p>	 <p>5¢ each cobbles</p>		

1. You have 42¢ to spend at the rock shop. If you spend all your money, what rocks would you choose? Show your work.

2. If you have 49¢ what rocks would you choose? Will you have any money left? How much? Show your work.

MATH EXTENSION A**Investigation 3: Using Rocks**

You and five friends want to make clay bricks at home.

1. Each person needs 2 cups of clay. Altogether, how many cups of clay will you need?
2. Each person needs 1 handful of straw. How much straw will you need for everyone?
3. Every two people share 1 cup of water. How many cups of water will you need in all?

MATH EXTENSION B

Investigation 3: Using Rocks

1. Two people are building a wall with bricks. Each row will have six bricks when they are done. The wall is four rows tall.

How many bricks are needed to finish each row?

How many bricks will they need altogether to finish the wall?

2. Two other people are building a taller and wider brick wall. It is five rows tall. Each row will have seven bricks. They have 10 bricks already. How many more bricks do they need?

MATH EXTENSION

Investigation 4: Soil and Water

Three girls (Sara, Maria, Ann) and two boys (Lamar and Pedro) went on a rock hunt. The girls each found five rocks. Lamar found six rocks, and Pedro found four rocks.

For each problem, show how you found your answer and write an equation.

1. When Pedro and Lamar combined their rocks, how many rocks did they have?
2. The girls put all their rocks together. How many rocks do they have?
3. Pedro and Sara collected all the same-size rocks. How many rocks would they have if they put their rocks together?
4. Ann and Pedro combined their rocks. Then Sara and Lamar combined their rocks. Which pair of students has more rocks? How do you know?
5. Maria met her friend Arlo. Arlo collected rocks too. When Maria and Arlo added their rocks together, they had 13 rocks. How many rocks did Arlo have in his collection?
6. Lamar wants to have a dozen rocks in his collection. He found six on the rock hunt. How many more does he need to find?