Ne‘epapa Ka Hana Mathematics Resources

Professional Development Course

Video 2 *Example Activities*

Project Director — Kaveh Abhari

Content Developer — Robert G. Young

Inoa (Name): _____
Lā (Date): _____

We're going to take a look at how ratios affect our lives. For example, some cities have a very high ratio of vegetarians to non-vegetarians, so they also have a lot of vegetarian restaurants.

Classroom

1. Find the ratio of the different genders in your classroom. For example, a classroom might have the ratio of 7 girls to 3 boys or 7 girls : 3 boys.

2. Think about the restrooms that you have on campus. What kind of restrooms do you have and how many of each kind do you have? Do you think that this is appropriate for the ratio of students in Part 1? Why or why not?

Home

3. Describe your life at home, using **five ratios**. For example, if you have a lot of pets, then the pets might be represented as 2 cats : 1 dog. Or if you have five family members and one of them are vegan then you can use the ratio 1 vegan to 4 non-vegans.

   (a)

   (b)

   (c)

   (d)

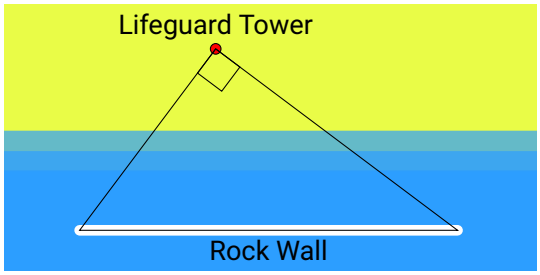
   (e)

4. Share at least two ways that these ratios affect your life. For example, a family with 2 cats to 1 dog might buy more cat food.

Inoa (Name): _____

Lā (Date): _____

Your community is raising money for a rock wall to protect a beach from erosion. When the wall is built, a lifeguard tower will be 300 feet from one end and 400 feet from the other end of the wall. The tower and the wall will form a right triangle.



If the rock wall costs $1,500 per foot to build, how much money does the community need to raise?

Inoa (Name): _____
Lā (Date): _____

1. You and three friends are planning to buy some plate lunch together at a total cost of $\$16.00$. However, two *more* friends join you. If the cost of the food is the same for each person, what is the new total cost of this lunch? Show and explain your work.

Ono (delicious) plate lunch

2. You and your friends can each make lei at the same rate. With one friend, you guys can make 5 lei in one hour. How many lei can you and three friends make in an hour? Show and explain your work.

Nani (pretty) lei