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Ne'epapa Ka Hana Mathematics Resources

# **Professional Development Course**

## *Video 5 Example Activities*

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Inoa (Name): \_\_\_\_\_

Lā (Date): \_\_\_\_\_

You're trying to make a record of how plants are distributed in two neighborhoods. As you take a walk through these neighborhoods, you notice that every house either has white hibiscus plants (*Hibiscus arnottianus*) or yellow hibiscus plants (*Hibiscus brackenridgei*).



1. As you walk through the first neighborhood, you notice that for every three (3) houses with white hibiscus plants there are five (5) houses with yellow hibiscus plants.

(a) What fraction of houses in this neighborhood have yellow hibiscus?

(b) If there are 750 houses in this neighborhood, how many would you expect to have white hibiscus?

2. As you walk through the second neighborhood, you notice that for every six (6) houses with white hibiscus plants there are two (2) houses with yellow hibiscus plants.

(a) What percentage of houses in this neighborhood have white hibiscus?

(b) If there are 100 houses with yellow hibiscus, how many houses total are in this neighborhood?



Inoa (Name): \_\_\_\_\_

Lā (Date): \_\_\_\_\_

We're trying to decide between three different areas to reintroduce a native plant. To help us decide, we'll look at the proportion of invasive plant species in each area. Here are the three choices:

Area	Proportion of invasive plant species
1	27%
2	17/50
3	0.3

1. Order the areas from *least to greatest proportion of invasive plants*.

2. Why do you think the proportion of invasive plants matters?

3. Which of the three areas would you choose and why?

