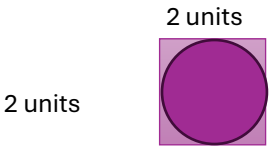
Calculating Area of Camas and applications with Fractions

Activity 1 - One-Step Equations:
Camas Plants need space to grow well.
In these problems, we will use a model to represent Camas plants.

- Each square represents one space where a Camas plant could grow.
- Use the model to figure out how many plants can fit in each field.
- What is the greatest number of plants that can fit in the rectangle below?

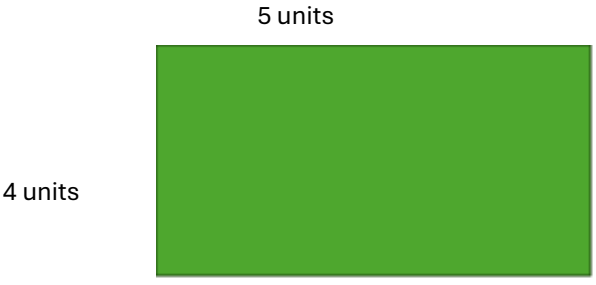


Field #1



How many Camas bulbs can grow in this field? ☐

Field #2



How many Camas bulbs can grow in this field? ☐

Field #3

4 units

9 ½ units



How many Camas bulbs can grow in this field? ☐

Activity 2 - Two-Step Equations:

Notice that when a shape is turned, its size does not change.

In these problems, we are using a model.

- Each measurement shows the space a plant needs in this model.

Use the information below to find how many Camas and Wild Onions fit in each field.

- Some may already be planted.
- You can cut out the model Camas bulb and Wild Onion bulb and place them in the field if that makes it easier to visualize the total amount.

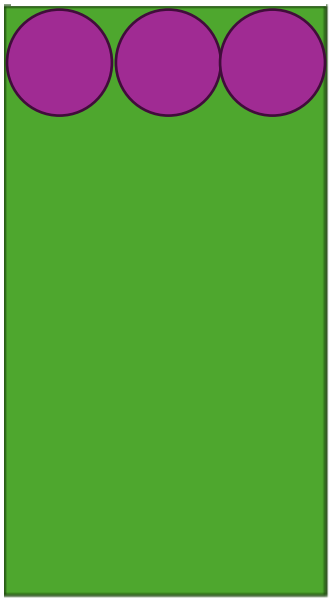
Model for Camas space:



2 units

2 units

Camas Field



Model for Wild Onion space:



1 ½ units

2 units

(An equal number of Wild Onion bulbs should fit on each side of the field)

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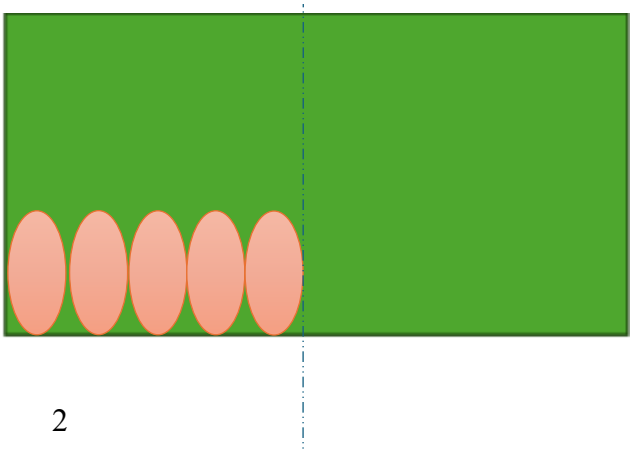
Wild Onion Field



How many Camas bulbs fit in the Camas field? ☐

How many Wild Onion bulbs fit in the Wild Onion field? ☐

Activity 3 - Two-Step Fractions:
You are going to plant Camas bulbs and Wild Onion bulbs in a small pot at your house.

- You have **8** Camas bulbs to plant, but only **2** fit in your pot.

Write this equation as a fraction: ☐

How many Camas bulbs were left over? _____

- You have **8** Wild Onion bulbs to plant, but only **4** fit in your pot.

Write this equation as a fraction: ☐

How many Wild Onion bulbs were left over? _____

- Add the total number of bulbs planted as a fraction and add together:

_____ + _____ = _____

Bonus Time: Can you recognize reduced fractions?

$\frac{4}{8}$ is the same as $\frac{__}{2}$

$\frac{4}{8}$ is the same as $\frac{__}{4}$

Can you reduce the total number of Camas bulbs and Wild Onion bulbs?

Total bulbs planted: $\frac{____}{8}$ is the same as $\frac{_____}{4}$