



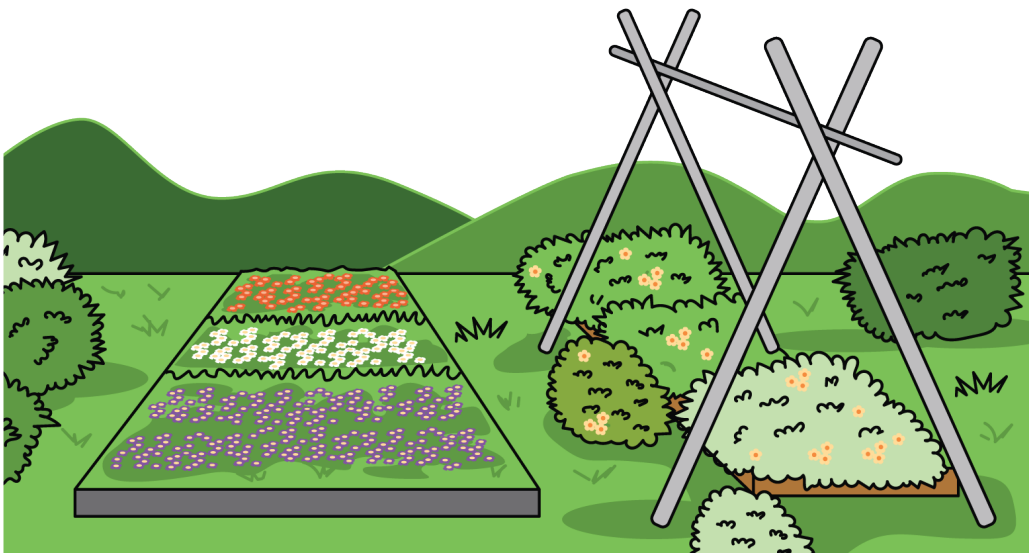
# Estimate Products

Let's estimate products of a whole number and a fraction.

## Warm-up

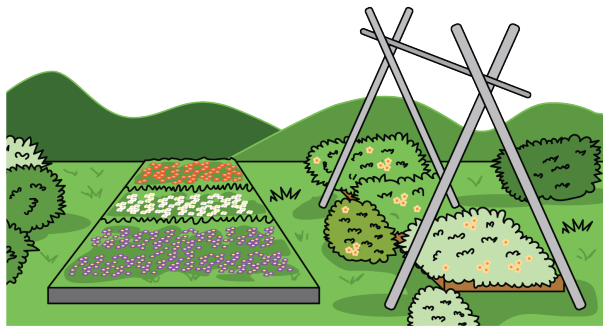
### Notice and Wonder: Garden Size

What do you notice? What do you wonder?



## Activity 1

### Priya's Garden



Priya has enough materials to build a rectangular garden that covers 36 square feet. Choose **all** the side lengths that are reasonable for her garden. Explain your reasoning.

1. 9 feet by  $4\frac{2}{3}$  feet
2. 9 feet by  $3\frac{8}{9}$  feet
3. 12 feet by  $2\frac{11}{12}$  feet
4. 9 feet by  $2\frac{2}{3}$  feet

## Activity 2

### Too High, Too Low, Just about Right

- Write a multiplication expression with whole numbers whose value is slightly less than, slightly greater than, or about equal to the value of  $7 \times 12\frac{8}{9}$ .
  - slightly less:
  - slightly greater:
  - about equal to:
- Write a multiplication expression with whole numbers whose value is slightly less than, slightly greater than, or about equal to the value of  $9 \times 4\frac{2}{29}$ .
  - slightly less:
  - slightly greater:
  - about equal to:
- Without calculating, use the numbers 2, 3, 5, 6, and 7, to complete the expression so it has a value close to 20.

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \frac{\boxed{\hspace{1cm}}}{\boxed{\hspace{1cm}}}$$

- Explain how you know your expression represents a value close to 20.

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