



# Situations about Multiplying Fractions

Let's solve problems about multiplying a unit fraction and a non-unit fraction.

## Warm-up

### Number Talk: More Halving

Find the value of each expression mentally.

- $\frac{1}{2} \times \frac{1}{2}$

- $\frac{1}{3} \times \frac{1}{2}$

- $\frac{1}{4} \times \frac{1}{2}$

- $\frac{1}{5} \times \frac{1}{2}$

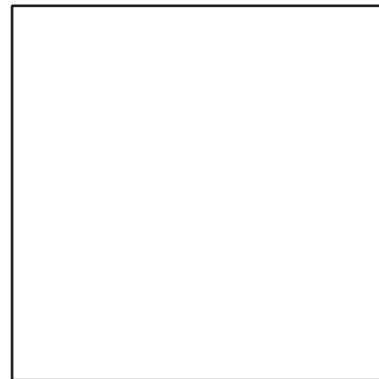


## Activity 1

### The Park

A city designs a park on a rectangular piece of land.  $\frac{2}{3}$  of the park will be used for different sports.  $\frac{1}{2}$  of the land set aside for sports will be soccer fields.

1. Draw a diagram of the situation.

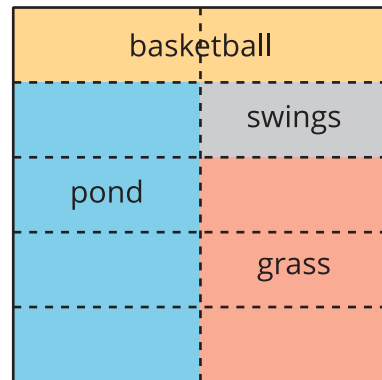


2. Write a multiplication expression to represent the fraction of the park that will be soccer fields.
3. What fraction of the whole park will be soccer fields? Explain or show your reasoning.

## Activity 2

### A Different Park

Elena draws this diagram to represent a different park.



1. The expression  $\frac{3}{5} \times \frac{1}{2}$  represents which part of the park? Explain or show your reasoning.
2. Pick one of the other parts of the park. Write a multiplication expression for the fraction of the park it represents.
3. Trade expressions with your partner. Determine which part of the park their expression represents.