

Lesson 4: Situations about Multiplying Fractions

• Let's solve problems about multiplying unit fractions.

Warm-up: Number Talk: More Halving

Find the value each expression mentally.

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

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

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

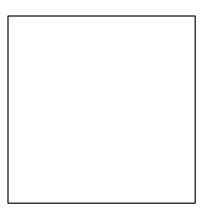
$$\bullet$$
 $\frac{1}{5} \times \frac{1}{2}$



4.1: The Park

A city is designing 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.

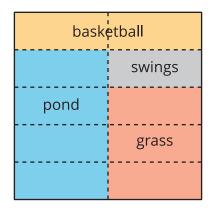


- 2. Write a multiplication expression to represent the fraction of the park that will be soccer fields.
- 3. What fraction of the whole park will be soccer fields? Explain or show your reasoning.



4.2: A Different Park

Here is a diagram for a different park that Elena drew.



1. Which part of the park can be represented with the expression $\frac{3}{5} \times \frac{1}{2}$? Explain or show your reasoning.

- 2. Pick one of the other parts of the park and write a multiplication expression for the fraction of the park it represents.
- 3. Trade expressions with your partner and figure out which part of the park their expression represents. Be prepared to explain your reasoning.

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