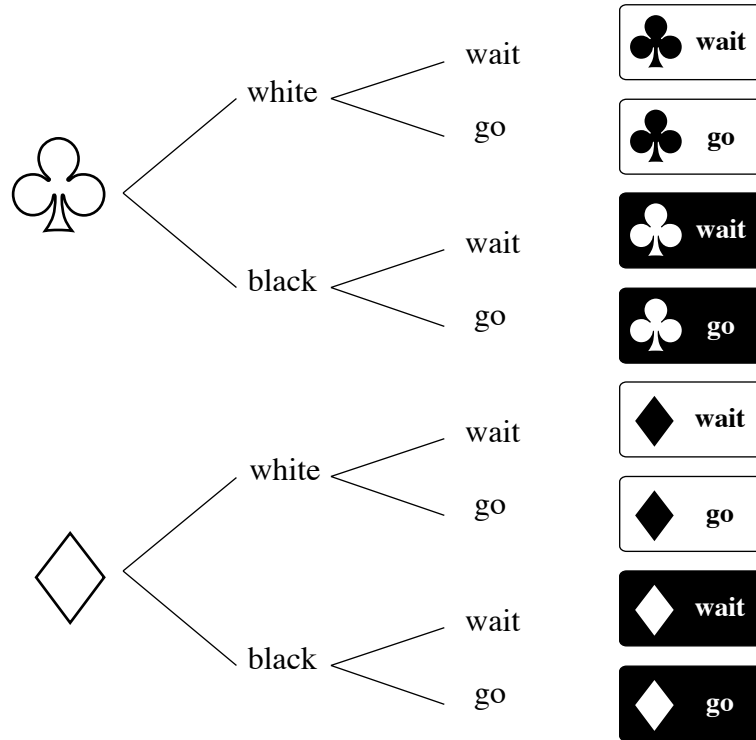


# MathFLIX CHALLENGE

## Fundamental Counting Principle Illustrated: *Instructional*

For a survey, Jose wants to distribute different cards to each student. If he uses cards shaped as clubs or diamonds which are either white or black and have either the words wait or go, how many different cards could Jose create?



Use words, symbols or diagrams to solve the problem. Also, explain in words the steps you took to solve the problem and why you took those steps.

What do you see?

Can you predict the question?

Read the question.

Can you count all the different cards?

What is the answer to the question?

Explain why  $2 \times 2 \times 2$  can be used to find an answer.

First, I looked at the diagram **because** \_\_\_\_\_

Second, I predicted the question from the diagram **because** \_\_\_\_\_

Next, I read the question **because** \_\_\_\_\_

Next, I made all of the combinations **because** \_\_\_\_\_

My answer is \_\_\_\_\_ **because** \_\_\_\_\_