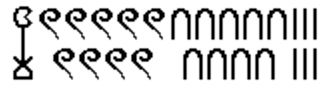


### Application: Foreign Language

When you buy a car, follow a recipe, or decorate your home, you are using math principles. People have been using these same principles for thousands of years, across countries and continents. How can math be so universal? First, humans didn't invent math concepts, we discovered them. Also, the language of math is numbers, not English, Spanish, or French, and numbering systems are a part of every foreign language known.

	1
∩	10
∩	100
∩	1000
∩	10,000
∩	100,000
∩	1,000,000

To the left, we see the signs for Egyptian numbers. These were combined to make the number 1,996 on the right.



(Numbers other than "one" were almost never written as words.)

Problem: Use the signs on the left to create the number 4,382.

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Answer: Using the principles of number systems, you can create the following:

