

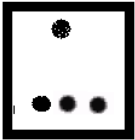

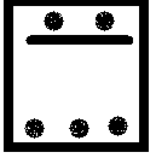








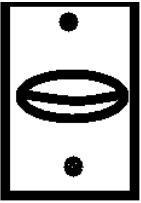

1. Write the following Mayan numbers in the usual notation:

| Mayan Notation  | Number |
|---|--------|
|    | 7      |
|    |        |
|   |        |
|  |        |
|  |        |

2. Write the following numbers in Mayan notation:

| Number | Mayan Notation   |
|--------|--|
| 15     |    |
| 72     |   |
| 165    |  |
| 80     |  |

3. Below are some examples of when the Mayan 0 is used. Convert the number into “our” notation.

| Mayan Notation  | Number |
|---|--------|
|    |        |
|   |        |
|  |        |
|  |        |

4. Adding Mayan numbers:

a)  $\bullet\bullet + \bullet\bullet =$

b)  $\bullet\bullet\bullet + \bullet\bullet =$

c)  $\bullet\bullet\bullet + \bullet\bullet\bullet\bullet =$

d)  $\underline{\bullet\bullet} + \bullet\bullet =$

e)  $\underline{\bullet\bullet} + \underline{\bullet\bullet\bullet} =$

f)  $\underline{\underline{\quad}} + \underline{\quad} =$

g)  $\underline{\bullet\bullet} + \underline{\underline{\quad}} =$

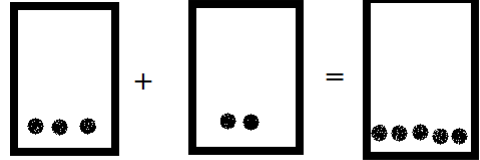
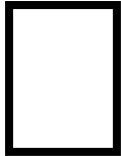
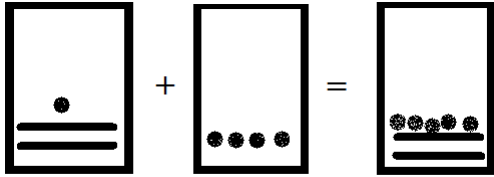
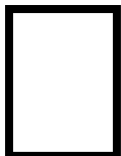

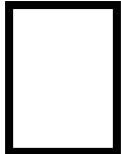

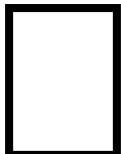
h)  $\underline{\underline{\bullet\bullet}} + \bullet\bullet\bullet =$

5. Explain this formula found in an ancient Mayan city. Convert the numbers to the usual notation and see if the problem was solved correctly. Explain why or why not.

$$\equiv + \text{---} = \boxed{\begin{array}{c} \cdot \\ \text{---} \end{array}}$$

6. Create your own equation, and exchange it with a classmate sitting next to you. Then check if they answered your question correctly!

7. Time to be a teacher. Find mistakes on the following homework submitted by an ancient Mayan boy. Correct it to show the student how to solve the problem. Use only Mayan numerals.

| Mayan Boy   | Correct Answer  |
|---|---|
|    |    |
|   |   |
|  |  |
|  |  |

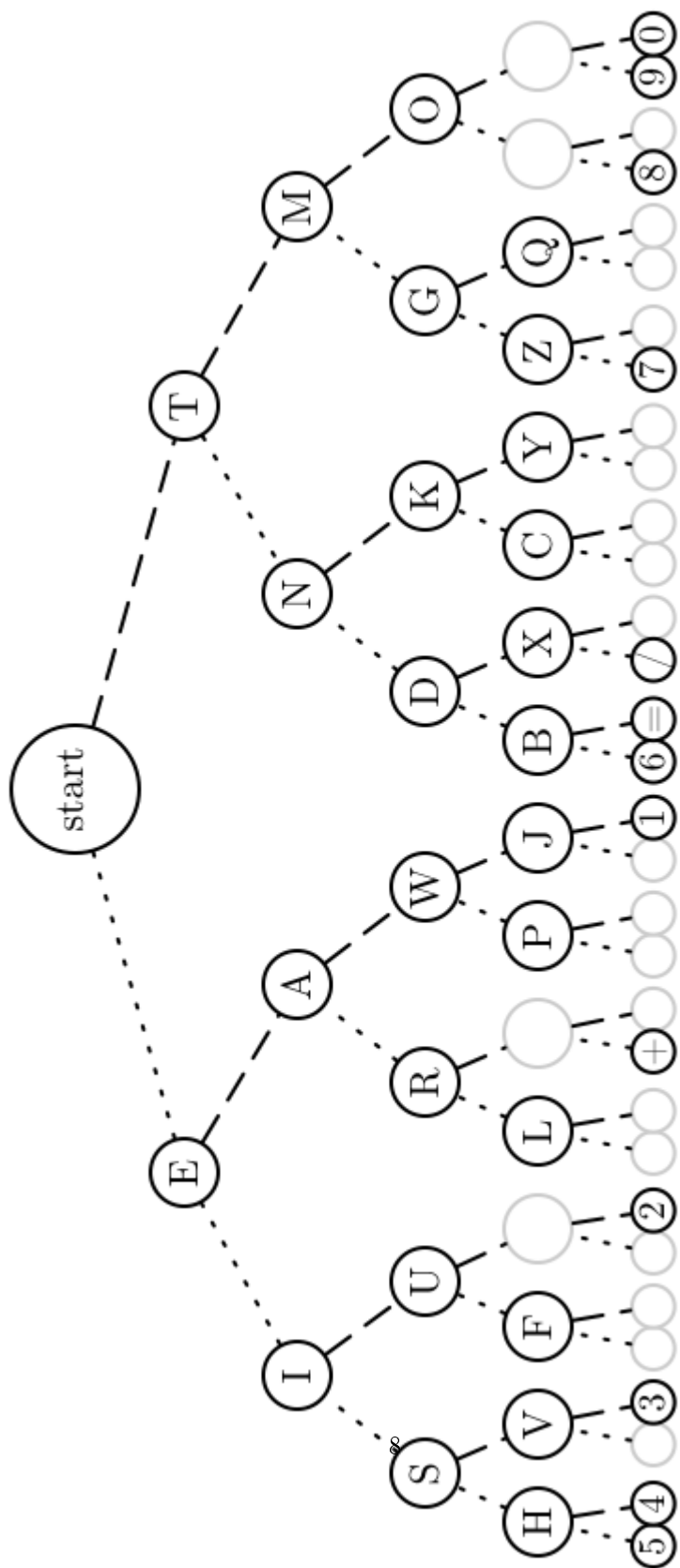
Morse code is a system of representing letters, numbers and punctuation marks by means of a code signal sent intermittently. Morse code consists of sending dots and dashes that represent letters. The chart on the other page is a Morse Code tree made up of paths of dots and dashes which lead to circled letters.

8. Your job is to decode the following phrase. Each dot represents following a path of dots to the next letter, and each line represents following a path of dashes to the next letter:

|         |     |         |   |
|---------|-----|---------|---|
| • • • • | • — | • • • — | • |
| H       |     |         |   |
| • —     |     |         |   |
| — •     | • • | — • — • | • |
| — • •   | • — | • — — — |   |

9. put your first name into Morse code.

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |





10. Write a message for your classmate using Morse Code, and have them decode it.

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |