

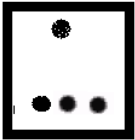

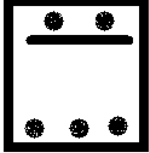


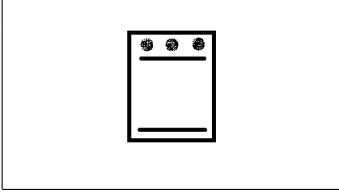
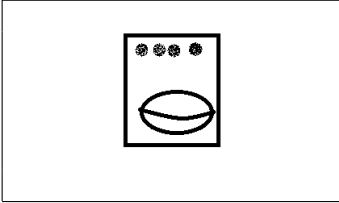




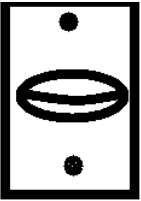

Write the following Mayan numbers in the usual notation:

Mayan Notation	Number
	7
	14
	23
	20
	143

Write the following numbers in Mayan notation:

Number	Mayan Notation
15	
72	
165	
80	

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

Mayan Notation	Number
	40
	20
	401
	405

Adding Mayan numbers:

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

b) $\bullet\bullet\bullet + \bullet\bullet = \text{————}$

c) $\bullet\bullet\bullet + \bullet\bullet\bullet\bullet = \text{————} \begin{matrix} \bullet & \bullet \\ \bullet & \bullet \end{matrix}$

d) $\text{————} \begin{matrix} \bullet & \bullet \\ \bullet & \bullet \end{matrix} + \bullet\bullet = \text{————} \begin{matrix} \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet \end{matrix}$

e) $\text{————} \begin{matrix} \bullet & \bullet \\ \bullet & \bullet \end{matrix} + \text{————} \begin{matrix} \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \end{matrix} = \text{————} \text{————} \text{————}$

f) $\text{————} \text{————} + \text{————} = \text{————} \text{————} \text{————}$

g) $\text{————} \begin{matrix} \bullet & \bullet \\ \bullet & \bullet \end{matrix} + \text{————} \text{————} = \text{————} \begin{matrix} \bullet & \bullet \\ \bullet & \bullet \end{matrix} \text{————} \text{————}$

h) $\text{————} \begin{matrix} \bullet & \bullet \\ \bullet & \bullet \end{matrix} \text{————} + \bullet\bullet\bullet = \text{————} \begin{matrix} \bullet \\ \bullet \end{matrix}$

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.

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

Solution: This is correct! $15+5=20$, and that is how you write 20 using Mayan notation.

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

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
