










MAYAN MATHS

The Maya were a remarkable people. Many years ago, it was discovered that the Maya had their own unique number system that was easy to follow. They used symbols and writing frames to create their numbers; including a symbol for zero, making them one of only four civilizations to invent the number zero.

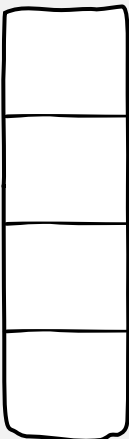
-  → A dot represents one
-  → A line represents five
-  → A shell represents zero

For Example:

-  → 2  → 3  → 4
-  → 6  → 9  → 17

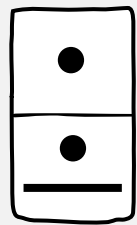
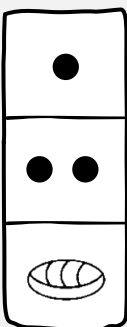
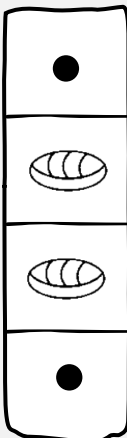
How would you represent the number 10?

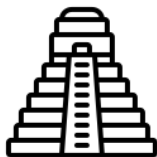
For numbers twenty and over, the Maya used a writing frame. The higher the box on the frame, the bigger the number.







- The top box is for 8000's
- This box is for 400's
- This box is for 20's
- The bottom box is 1's

For Example:

-  → 26
-  → 440
-  → 8001



An easy way to work out the number is to calculate each level and then add them together.

-  → Two dots = 2 → $2 \times 8000 = 16000$
-  → Four dots = 4 → $4 \times 400 = 800$
-  → One line = 5 → $5 \times 20 = 100$
-  → Three dots and two lines = 13 → $13 \times 1 = 13$


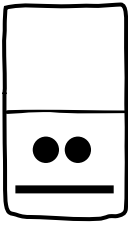
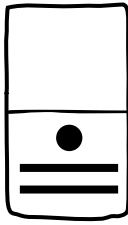
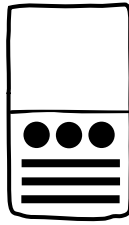
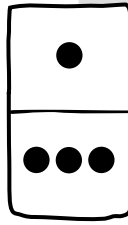
$$\begin{array}{r}
 16000 \\
 800 + \\
 100 + \\
 13 + \\
 \hline
 16913
 \end{array}$$


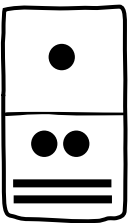
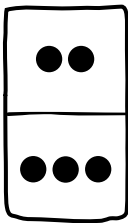
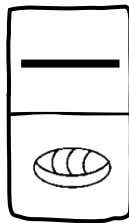
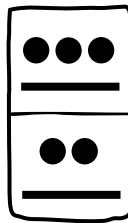
The total is: **16913**


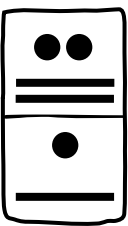
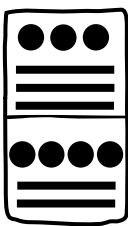
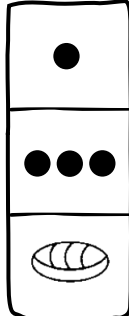
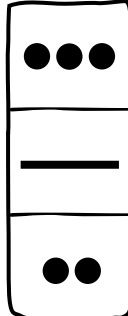
MAYAN MATHS


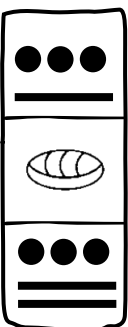
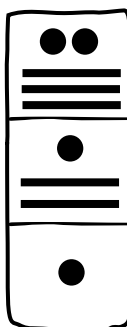
Have a go at working out some Mayan numbers!

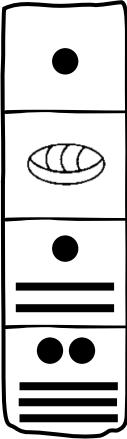
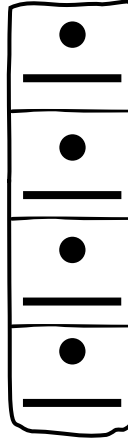
They get trickier as you go down the page, so make sure you use the previous page if you get stuck.

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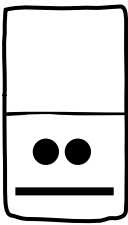
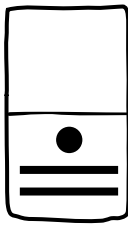
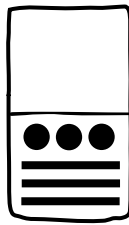
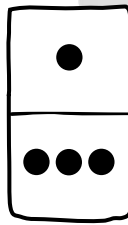
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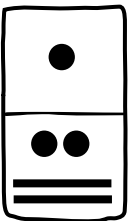
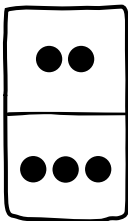
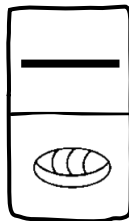
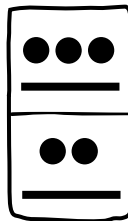
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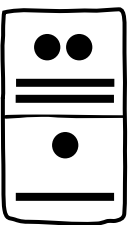
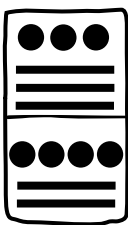
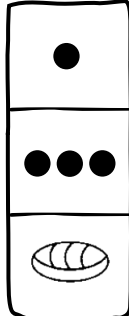
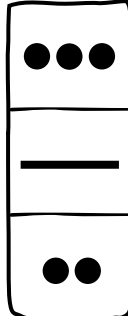



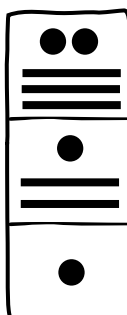
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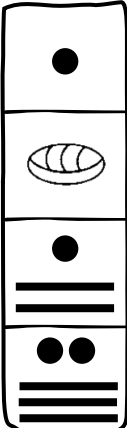
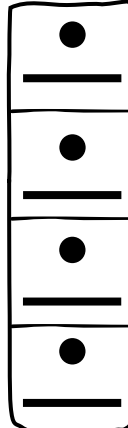
ANSWERS

  = 7  = 11  = 18  = 23

  = 32  = 43  = 100  = 167

  = 246  = 374  = 460  = 1302

 = 3213  = 7021

  = 8237  = 50526

