

Converting from an Alien number system to Base 10

X-Manian Number System

$$\textcircled{1} = \textcircled{-} = \textcircled{/} = \textcircled{\backslash} = \textcircled{\times} =$$

Do the X-Manians have way to represent zero? If so, how?

The X-Manian number system uses base _____

Convert the following X-Manian numbers into base 10:



1) $\textcircled{/}$
 $\textcircled{\times} = \underline{\hspace{2cm}}_{10}$

2) $\textcircled{/}$
 $\textcircled{\circ}$
 $\textcircled{-} = \underline{\hspace{2cm}}_{10}$

3) $\textcircled{\times}$
 $\textcircled{\times}$
 $\textcircled{\circ} = \underline{\hspace{2cm}}_{10}$

4) Convert 91_{10} into an X-Manian number.



5) Find the product of  and . Express your product in base 10 and use base (subscript) notation.

6) Convert the base 10 product you found in problem number 5 into an X-Manian number. Compare the original X-Manian factors to the X-Manian product. What do you notice? How does it relate to similar problems in base 10?