
3. 11 in Earthling numbers would be 15 in Cartok counting, one lot of 6 and five 1 s . (This is usually written as 15 , to show the base structure.) Change the following Earthling numbers into Cartok counting:
a. 8
b. 17
c. 26
d. 30
4. The Earthling counting system uses the following place values:

| 1 | 10 | 100 | 1000 | 10 | 000 | 100000 | 1000000 | $\ldots$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| that is, | $10^{0}$ | $10^{1}$ | $10^{2}$ | $10^{3}$ | $10^{4}$ | $10^{5}$ | $10^{5}$ | $\ldots$ |

Complete the following table to show the Cartoks' place values in Earthling counting.
$\square$
that is,

| 1 | 6 | 36 | $\ldots$ |
| :---: | :---: | :---: | :---: |
| $6^{0}$ | $6^{1}$ | $6^{2}$ | $\ldots$ |

5. Change the following Cartok numbers into Earthling numbers:
a. 43
b. 52
c. 124
d. 1253
6. The Vanans are another alien race. They have four fingers on each hand and have developed their counting in the same way as Earthlings and Cartoks. If they saw the same systems as the Cartoks did in Activity One, questions 1 and 2, how many moons and planets would they have counted? Explain your answer.
7. Translate the Earthling numbers in Activity One, question 3, into Vanan numbers.
8. Invent another alien race and their alien counting system. Ask a classmate to use your system to describe some Earthling numbers.
