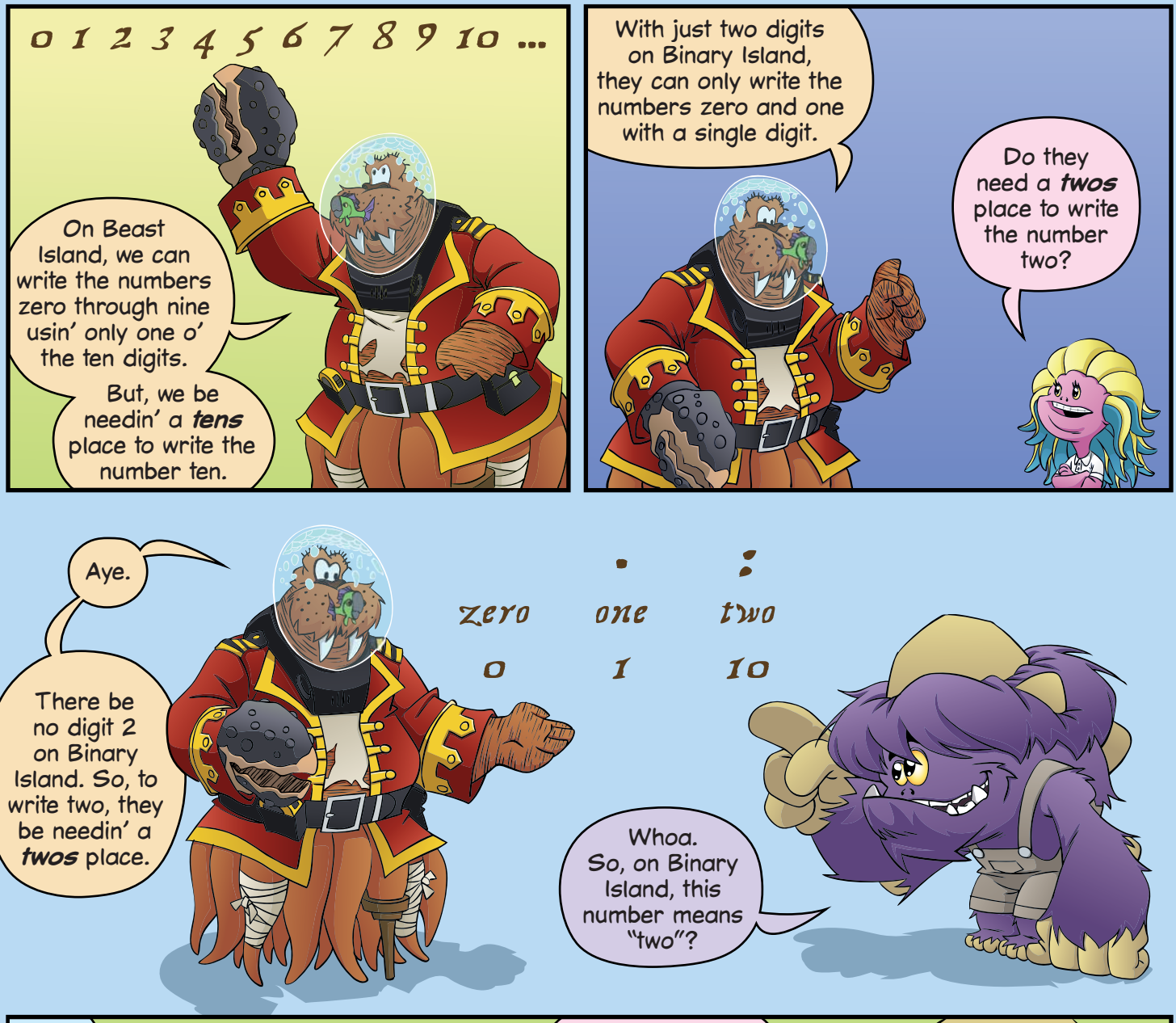
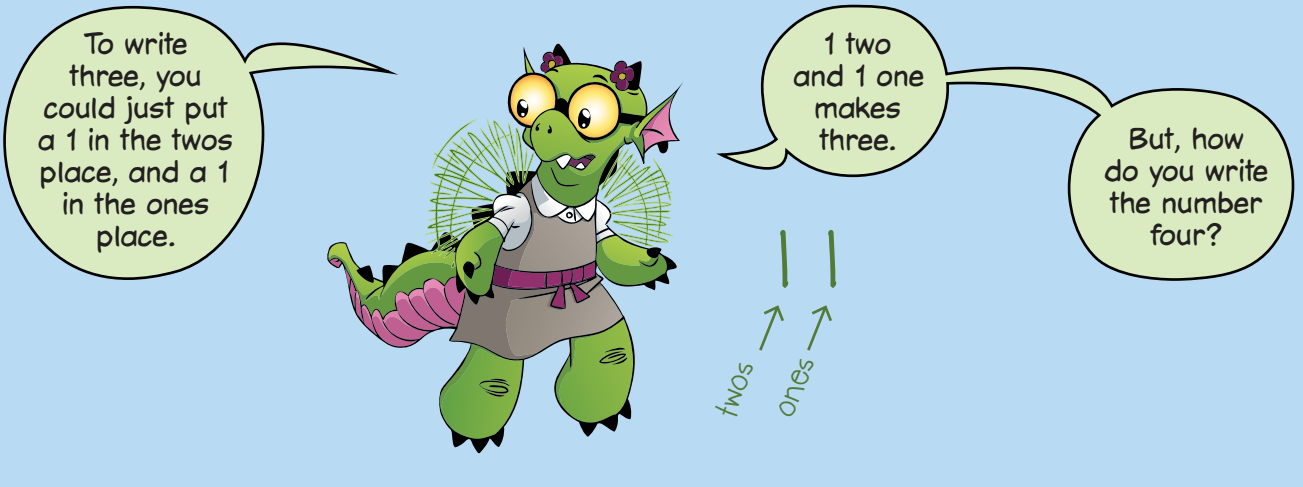
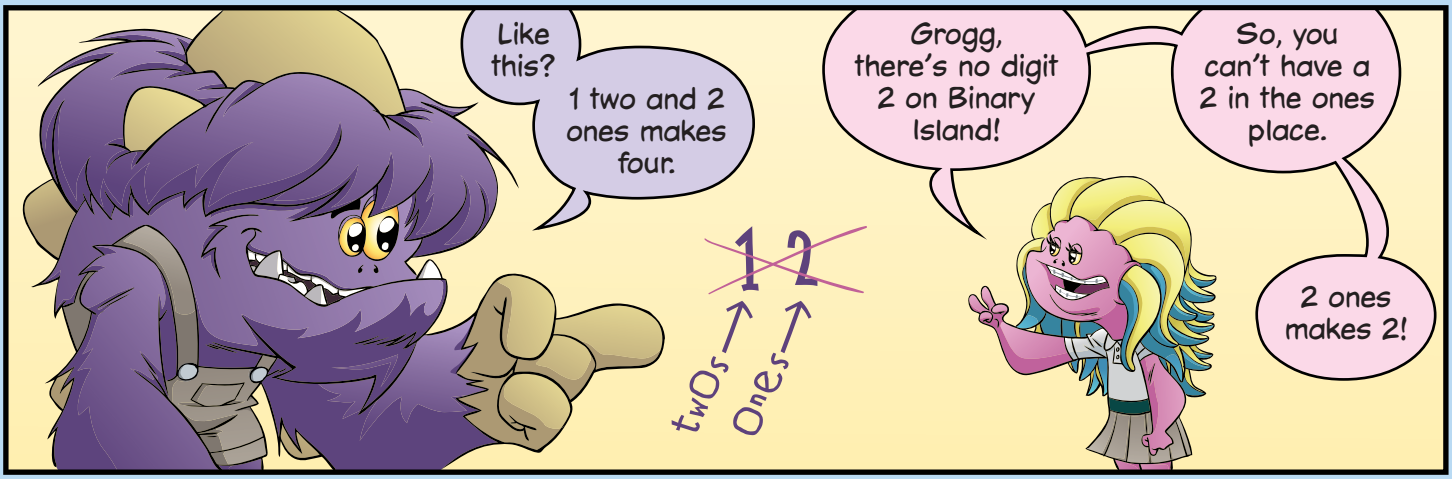
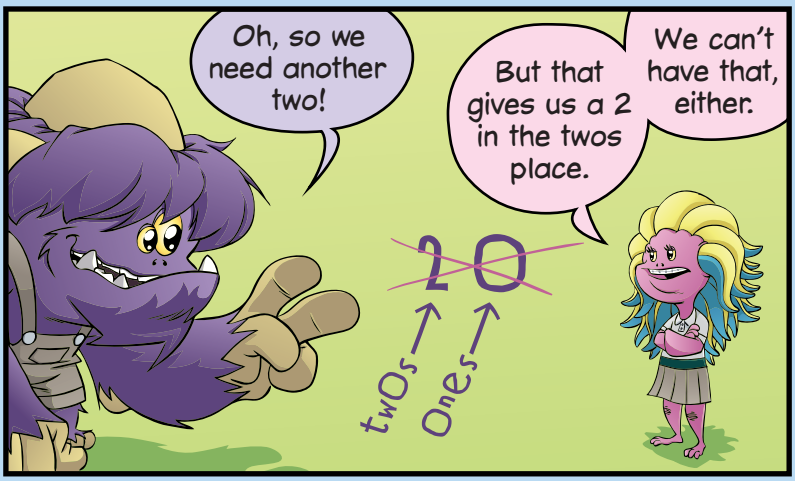
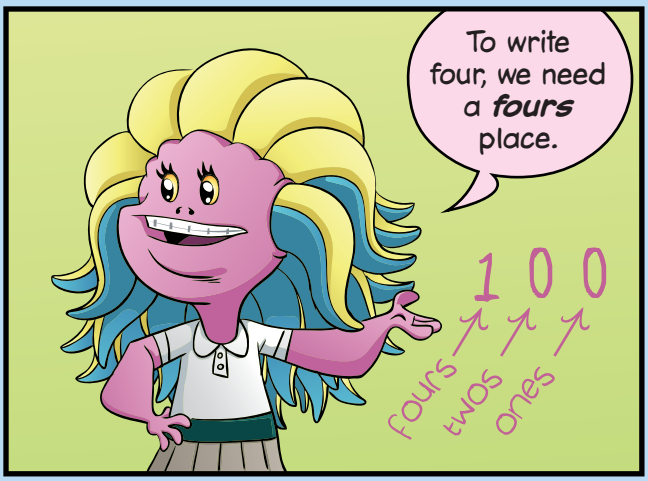

0 1 2 3 4 5 6 7 8 9 10 ...
On Beast Island, we can write the numbers zero through nine usin' only one o' the ten digits.
But, we be needin' a tens place to write the number ten.
With just two digits on Binary Island, they can only write the numbers zero and one with a single digit.
Do they need a twos place to write the number two?
Aye.
There be no digit 2 on Binary Island. So, to write two, they be needin' a twos place.
zero
one
two
0
1
10
Whoa. So, on Binary Island, this number means "two"?
I get it.
On Beast Island, this number has 1 ten and 0 ones.
Beast Island
10 = :::::
tens
ones
Binary Island
10 = :
twos
ones
But on Binary Island, the 1 is in the twos place. So, this number has 1 two and 0 ones.
How do they write the number three on Binary Island?
Try it.



Try it.







Beast :	0	1	2	3	4	5	6	7	8
Binary :	0	1	10	11	100				

Try it.

Beast :	0	1	2	3	4	5	6	7	8
Binary :	0	1	10	11	100	101	110	111	

After 100 comes 101.

There's a 1 in the fours place, and a 1 in the ones place, which makes five.

Then, six has a 1 in the fours place and a 1 in the twos place.

And to write seven, we need 1 four, 1 two, and 1 one .

How is eight written on Binary Island?

1000

eights fours twos ones

Seven is the largest 3-digit number on Binary Island.

To write eight, we need an eights place!

The place values keep doubling!

1,000,000

millions hundred-thousands ten-thousands thousands hundreds tens ones

1,000,000

sixty-fours thirty-twos sixteens eights fours twos ones

Aye. Usin' ten digits on Beast Island, each place value be ten times bigger than the one before it.

But, usin' just two digits on Binary Island, each place value be twice as big as the one before it.


So, on Binary Island, 10,000 means sixteen.
Happy Sweet 10,000
And 100,000 means thirty-two.
MONSTER
GULP
1qt. (100,000oz.)
And 1,000,000 means sixty-four!
1,000,000
CRAYONS
Aye. On Binary Island, 1,000,000 be the number sixty-four.
Imagine me disappointment upon voyagin' to Binary Island in search o' the famed treasure of 1,000,000 pearls...
...only to discover that on Binary Island, 1,000,000 means sixty-four.