Complete this table of powers of two in both directions. Use a calculator if you need to.

3-7	3-6	3 -5	3-4	3 ⁻³	3-2	3-1	3 ⁰	3 ¹	3 ²	3 ³	34	3 ⁵	3 ⁶	37	3 ⁸	3 ⁹	3 ¹⁰	311
									9	27	81	243	729					

- 1. The ones digit of 3^5 is 3. The ones digit of 3^6 is 9. What is the ones digit of...?
 - a. 3¹²
 - b. 3³³
 - c. 3¹⁰¹
 - d. 3⁹⁹⁹

2. Use your calculator to solve these problems:

a. 9 x 81 =	b. 243 x 3 =	c. 81 x 729 =
d. 729 x 3 =	e. 243 x 243 =	

- 3. What is true about all the answers in Question 2 Why does this happen?
- 4. Use your calculator to solve these problems:

a. 243 ÷ 9 =	b. 81 ÷ 3 =	c. 729 ÷ 27 =
d. 81 ÷ 81 =	e. 6,561 ÷ 81 =	

5. What is true about all the answers in Question 4. Why does this happen?

