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

2^{-7}	2^{-6}	2^{-5}	2^{-4}	2^{-3}	2^{-2}	2^{-1}	2^0	2^1	2^2	2^3	2^4	2^5	2^6	2^7	2^8	2^9	2^{10}	2^{11}
									4	8	16	32	64	128				

1. The ones digit of 2^6 is 4. The ones digit of 2^7 is 8. What is the ones digit of…?

    a. 2^{12}

    b. 2^{20}

    c. 2^{99}

    d. 2^{1001}

2. Use your calculator to solve these problems:

    a. 16 x 16 =   b. 2 x 64 =   c. 4 x 128 =

    d. 64 x 128 =   e. 16 x 256 =

3. What is true about all the answers in Question 2
   Why does this happen?

4. Use your calculator to solve these problems:

    a. 128 ÷ 16 =   b. 32 ÷ 4 =   c. 256 ÷ 8 =

    d. 16 ÷ 32 =   e. 64 ÷ 512 =

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

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