Name	
1.	Convert 1.57 x $10^5$ kL to mL.
2.	Convert $1.57 \times 10^{11} \text{ cm}^3 \text{ to km}^3$ .
3.	Convert $1.57 \times 10^5 \text{ kL to km}^3$ .
4.	What do you notice about questions 1 & 2 versus question 3?
5.	Convert 1.57 x $10^{-4}$ km $^3$ to kL.

1. Convert 1.57 x 10<sup>5</sup> kL to mL.

$$(3+3) \times 1 + 5 = 11$$
  
1.57 × 10<sup>11</sup> mL

2. Convert  $1.57 \times 10^{11} \text{ cm}^3 \text{ to km}^3$ .

$$(-2-3) \times 3 + 11 = -4$$

3. Convert  $1.57 \times 10^5 \text{ kL to km}^3$ .

4. What do you notice about questions 1 & 2 versus question 3?

Question 3 is a liters-to-cubic-meters question.

Question 1 and 2 just break that question up into 2 easier-to-solve steps.

5. Convert 1.57 x 10<sup>-4</sup> km<sup>3</sup> to kL.

First km3 to cm3:  $(3 + 2) \times 3 - 4 = 11$ 

Then mL to kL: 14 + (-3 - 3) = 5.

 $1.57 \times 10^5 \, \text{kL}$ 

Notice how you just reversed Question 3.