

Use scientific notation for all answers.

1. How many liters are in a ML?
2. How many liters equals a μL ?
3. How many meters are in a Km?
4. 1 Km equals 6.2×10^{-1} miles. How many meters are in 2.5 miles?

5. How many liters equals a pL?
6. Which of the following are correct?
 - I. Zetta = ZL and zepto is zL
 - II. Zepto = ZL and zetta is zL
 - III. A zL is much smaller than a L
 - IV. a ZL is much smaller than a L
 - A. I and III
 - B. II and IV
 - C. I, II and III
 - D. IV only
 - E. None of these

7. How many square meters of flooring are needed for a 10ft by 12 ft room?

8. A swimming pool is 3 m by 10 m and 2.5 m deep. Due to a green algae issue, the water level needs to be lowered by 0.5 m, and then refilled (and treated with chemicals!). The pump removes water at a rate of 24 L per min. How many hours will it take to lower the level of water by 0.5 m?