



$$M = 82,5 \text{ g}$$

$$V = 0,45 \text{ L}$$

$$PM = 46$$

$$12 \cdot 2 = 24$$

$$1 \cdot 6 = 6$$

$$16 \cdot 1 = 16$$

$$M = \frac{82,5}{(46)(0,45)} = \frac{82,5}{20,7} = 3,98 \text{ M}$$

2.

$$V = 7000 \text{ ml} = 7 \text{ L}$$

$$n = 4,78 \text{ mol}$$

$$M = 0,682 \text{ M}$$

3

$$n = 0,10 \text{ g/m}$$

$$M = 0,05 \text{ M}$$

$$n = \frac{3,65}{36,5} = 0,10 \text{ M}$$

$$m = \frac{0,10}{2} = 0,05 \text{ M}$$

4.

$$V = 0.250 \text{ L}$$

$$N = 0.500 \text{ Ml}$$

$$M = 2 \text{ M}$$

$$N = \frac{4 \text{ g} \cdot 0.4 \text{ g}}{98 \text{ g/mol}} = 0.500 \text{ Ml}$$

$$V = \frac{250}{1000} = 0.250 \text{ L}$$

$$M = \frac{0.500 \text{ M}}{0.250 \text{ L}} = 2 \text{ M}$$