

Name: \_\_\_\_\_ Per \_\_\_\_\_

**Molarity**  
*Practice Sheet #33*

| Substance                                       | Mass (g)<br>(give one decimal place) | Molar Mass<br>(g/mol) | Moles<br>(mol) | Molarity<br>(M) | Volume | Molecules               |
|---|--------------------------------------|-----------------------|----------------|-----------------|--------|-------------------------|
| NaF   |                                      |                       | 0.20           |                 | 0.50 L |                         |
| KIO <sub>3</sub>                                | 53.5 g                               |                       |                | 0.20 M          |        |                         |
| Al(NO <sub>3</sub> ) <sub>3</sub>               |                                      |                       |                |                 | 0.20 L | 3.01 x 10 <sup>22</sup> |
| HCl   |                                      |                       | 4.0 mol        | 2.5 M           |        |                         |
| NaOH  |                                      |                       |                | 0.5 M           | 600 mL |                         |
| C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> |                                      |                       | 0.060 mol      |                 | 800 mL |                         |
| NaNO <sub>3</sub>                               | 68 g                                 |                       |                |                 | 5.0 L  |                         |
| CuSO <sub>4</sub>                               |                                      |                       |                | 0.25 M          |        | 9.03 x 10 <sup>23</sup> |

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