

Name : \_\_\_\_\_ Date : \_\_\_\_\_

## Gram Formula Mass Worksheet

Calculate the molar masses of the following compounds.

1. NaBr

\_\_\_\_\_

2. PbSO<sub>4</sub>

\_\_\_\_\_

3. Ca(OH)<sub>2</sub>

\_\_\_\_\_

4. Na<sub>3</sub>PO<sub>4</sub>

\_\_\_\_\_

5. (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub>

\_\_\_\_\_

6. C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

\_\_\_\_\_

7. Fe<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>

\_\_\_\_\_

8. (NH<sub>4</sub>)<sub>2</sub>S

\_\_\_\_\_

9. Zn(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>2</sub>

\_\_\_\_\_

10. AgF

\_\_\_\_\_

11. Fe<sub>2</sub>O<sub>3</sub>

\_\_\_\_\_

12. Na<sub>2</sub>O

\_\_\_\_\_

13. MgO

\_\_\_\_\_

14. AuCl

\_\_\_\_\_

15. FeCl<sub>3</sub>

\_\_\_\_\_

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## Gram Formula Mass Worksheet

### Answers

Calculate the molar masses of the following compounds.

1. NaBr  $22.99 + 79.99 = 102.89 \text{ g/mol}$
2. PbSO<sub>4</sub>  $207.2 + 32.07 + 4 \times 16.00 = 303.27 \text{ g/mol}$
3. Ca(OH)<sub>2</sub>  $40.08 + 2 \times 16.00 + 2 \times 1.01 = 74.10 \text{ g/mol}$
4. Na<sub>3</sub>PO<sub>4</sub>  $3 \times 22.99 + 30.97 + 4 \times 16.00 = 163.94 \text{ g/mol}$
5. (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub>  $2 \times (14.01 + 4 \times 1.01) + 12.01 + 3 \times 16.00 = 96.11 \text{ g/mol}$
6. C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>  $6 \times 12.01 + 12 \times 1.008 + 6 \times 16.00 = 180.156 \text{ g/mol}$
7. Fe<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>  $3 \times 55.845 + 2 \times (30.974 + 4 \times 15.999) = 357.475 \text{ g/mol}$
8. (NH<sub>4</sub>)<sub>2</sub>S  $2 \times 14.01 + 8 \times 1.01 + 32.07 = 68.17 \text{ g/mol}$
9. Zn(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>2</sub>  $65.38 + 4 \times 12.01 + 6 \times 1.01 + 4 \times 16.00 = 183.38 \text{ g/mol}$
10. AgF  $107.87 + 18.998 = 126.868 \text{ g/mol}$
11. Fe<sub>2</sub>O<sub>3</sub>  $2 \times 55.845 + 3 \times 15.999 = 159.687 \text{ g/mol}$
12. Na<sub>2</sub>O  $2 \times 22.99 + 16.00 = 61.98 \text{ g/mol}$
13. MgO  $24.305 + 15.999 = 40.304 \text{ g/mol}$
14. AuCl  $196.97 + 35.45 = 232.42 \text{ g/mol}$
15. FeCl<sub>3</sub>  $55.845 + 3 \times 35.45 = 162.204 \text{ g/mol}$