Name: _____

POWERS OF 10

PART I: Write the value of each of the following.

1. $10^0 = $ _____

2. $10^1 = $ _____

3. $10^2 = $ _____

4. $10^3 = $ _____

5. $10^4 = $ _____

6. $10^5 = $ _____

7. $10^6 = $ _____

8. $10^7 = $ _____

9. $10^8 = $ _____

10. $10^9 = $ _____

PART II: Identify which number is larger by filling in the box with > or <

11. 10^8 ☐ 10^3

12. 10^2 ☐ 10^5

13. 10^{12} ☐ 10^3

14. 10^{10} ☐ 10^5

15. 10^{16} ☐ 10^6

16. 10^4 ☐ 10^7

PART III: Solve each of the following by adding. Express your answer in exponent form.

17. $10^6 + 10^1 = $ _____

18. $10^3 + 10^6 = $ _____

19. $10^5 + 10^5 = $ _____

20. $10^7 + 10^6 = $ _____

PART I: Write the value of each of the following.

1. $10^0 = $ **1**

2. $10^1 = $ **10**

3. $10^2 = $ **100**

4. $10^3 = $ **1,000**

5. $10^4 = $ **10,000**

6. $10^5 = $ **100,000**

7. $10^6 = $ **1,000,000**

8. $10^7 = $ **10,000,000**

9. $10^8 = $ **100,000,000**

10. $10^9 = $ **1,000,000,000**

PART II: Identify which number is larger by filling in the box with > or <

11. 10^8 **>** 10^3

12. 10^2 **<** 10^5

13. 10^{12} **>** 10^3

14. 10^{10} **>** 10^5

15. 10^{16} **>** 10^6

16. 10^4 **<** 10^7

PART III: Solve each of the following by adding. Express your answer in exponent form.

17. $10^6 + 10^1 = $ **10^7**

18. $10^3 + 10^6 = $ **10^9**

19. $10^5 + 10^5 = $ **10^{10}**

20. $10^7 + 10^6 = $ **10^{13}**