Name: _____

POWERS OF 10

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

1. $10^6 =$ _____

2. $10^2 =$ _____

3. $10^5 =$ _____

4. $10^{10} =$ _____

5. $10^1 =$ _____

6. $10^9 =$ _____

7. $10^3 =$ _____

8. $10^7 =$ _____

9. $10^4 =$ _____

10. $10^8 =$ _____

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

11. $10^2 \,\boxed{}\, 10^4$

12. $10^3 \,\boxed{}\, 10^1$

13. $10^{12} \,\boxed{}\, 10^{17}$

14. $10^8 \,\boxed{}\, 10^{18}$

15. $10^6 \,\boxed{}\, 10^3$

16. $10^{11} \,\boxed{}\, 10^{14}$

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

17. $10^7 + 10^4 =$ _____

18. $10^3 + 10^1 =$ _____

19. $10^3 + 10^3 =$ _____

20. $10^2 + 10^4 =$ _____

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

1. $10^6 = 1,000,000$
2. $10^2 = 100$
3. $10^5 = 100,000$
4. $10^{10} = 10,000,000,000$
5. $10^1 = 10$

6. $10^9 = 1,000,000,000$
7. $10^3 = 1,000$
8. $10^7 = 10,000,000$
9. $10^4 = 10,000$
10. $10^8 = 100,000,000$

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

11. 10^2 **<** 10^4
12. 10^3 **>** 10^1
13. 10^{12} **c** 10^{17}

14. 10^8 **<** 10^{18}
15. 10^6 **>** 10^3
16. 10^{11} **<** 10^{14}

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

17. $10^7 + 10^4 = 10^{11}$

18. $10^3 + 10^1 = 10^4$

19. $10^3 + 10^3 = 10^6$

20. $10^2 + 10^4 = 10^6$