

Name: _____



POWERS OF 10

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

1. $10^6 =$ _____

6. $10^9 =$ _____

2. $10^2 =$ _____

7. $10^3 =$ _____

3. $10^5 =$ _____

8. $10^7 =$ _____

4. $10^{10} =$ _____

9. $10^4 =$ _____

5. $10^1 =$ _____

10. $10^8 =$ _____

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

11. 10^2 10^4

14. 10^8 10^{18}

12. 10^3 10^1

15. 10^6 10^3

13. 10^{12} 10^{17}

16. 10^{11} 10^{14}

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

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

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

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

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

ANSWER KEY

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

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

6. $10^9 = 1,000,000,000$

2. $10^2 = 100$

7. $10^3 = 1,000$

3. $10^5 = 100,000$

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

4. $10^{10} = 10,000,000,000$

9. $10^4 = 10,000$

5. $10^1 = 10$

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

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

11. $10^2 < 10^4$

14. $10^8 < 10^{18}$

12. $10^3 > 10^1$

15. $10^6 > 10^3$

13. $10^{12} < 10^{17}$

16. $10^{11} < 10^{14}$

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

17. $10^7 + 10^4 = 10,010,000$

18. $10^3 + 10^1 = 1,010$

19. $10^3 + 10^3 = 2,000$

20. $10^2 + 10^4 = 10,100$