

Powers of Ten

Name: _____

Date: _____

Part A: Evaluate the Powers of 10

Write each power of 10 as a standard number.

1. $10^2 =$

2. $10^5 =$

3. $10^3 =$

4. $10^1 =$

5. $10^4 =$

6. $10^6 =$

7. $10^0 =$

8. $10^7 =$

Part B: Write as Powers of 10

Express each number as a power of 10.

9. 1,000 =

10. 100,000 =

11. 10 =

12. 10,000,000 =

13. 100 =

14. 1,000,000 =

Part C: Expanded Form Using Powers of 10

Write each number in expanded form using powers of 10.

Example: $3,456 = (3 \times 10^3) + (4 \times 10^2) + (5 \times 10^1) + (6 \times 10^0)$

15. 2,374 =

16. 5,082 =

17. 61,495 =

18. $80,706 =$

Part D: Standard Form from Powers of 10

Write each number in standard form.

19. $(7 \times 10^3) + (2 \times 10^2) + (9 \times 10^1) + (5 \times 10^0) =$ _____

20. $(4 \times 10^4) + (3 \times 10^3) + (6 \times 10^1) =$ _____

21. $(9 \times 10^5) + (8 \times 10^2) + (1 \times 10^0) =$ _____