

Exponent Notation Fill in the Blanks

Name: _____

Date: _____

Instructions:

Fill in the missing base or exponent to make each statement true. Remember: the base is the number being multiplied, and the exponent tells you how many times to multiply it.

Part A: Fill in the Missing Base

1. _____³ = 8

2. _____² = 25

3. _____⁴ = 16

4. _____² = 49

5. _____³ = 27

6. _____⁵ = 32

7. _____² = 64

8. _____³ = 125

Part B: Fill in the Missing Exponent

9. 3_____ = 9

10. 2_____ = 16

11. 5_____ = 125

12. 10_____ = 100

13. 4_____ = 64

14. 6_____ = 36

15. 7_____ = 49

16. 2_____ = 32

Part C: Write in Exponent Form

Write each repeated multiplication using exponent notation.

17. $4 \times 4 \times 4 =$ _____

18. $2 \times 2 \times 2 \times 2 \times 2 =$ _____

19. $9 \times 9 =$ _____

20. $10 \times 10 \times 10 =$ _____

Part D: Challenge Questions

21. If $3^4 = 81$, then the base is _____ and the exponent is _____.

22. $1^{10} =$ _____

23. _____ = 100 (Find two different answers)

Answer 1: _____ Answer 2: _____