

Lesson 1.2 ~ Powers and Exponents

Name_____ Period_____ Date_____

Write the numerical expression as a power.

1. $4 \times 4 \times 4$

2. $6 \times 6 \times 6 \times 6 \times 6$

3. $13 \times 13 \times 13 \times 13$

4. $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$

5. 7×7

6. $9 \times 9 \times 9$

7. $2 \times 2 \times 2 \times 2 \times 2$

8. $\frac{2}{5} \times \frac{2}{5}$

Write each power in expanded form and find the value.

9. 5^3 Expanded Form: _____
Value: _____

10. 2^4 Expanded Form: _____
Value: _____

11. 8^2 Expanded Form: _____
Value: _____

12. 4^4 Expanded Form: _____
Value: _____

13. 6^3 Expanded Form: _____
Value: _____

14. 1^6 Expanded Form: _____
Value: _____

15. $(\frac{1}{3})^4$ Expanded Form: _____
Value: _____

16. $(\frac{1}{4})^2$ Expanded Form: _____
Value: _____

Determine which power has the greater value.

17. 3^3 or 2^5

18. 4^4 or 5^3

19. List the following from least to greatest: 5^2 , 3^3 , 2^4