

Using Exponents

Directions Name the exponent in each of the following.

1. $(-7)^2$ _____

5. 3^6 _____

2. 10^3 _____

6. x^{10} _____

3. t^n _____

7. 2^4 _____

4. 2^1 _____

8. 8^5 _____

Directions Name the base in each of the following.

9. m^2 _____

13. 10^5 _____

10. 9^6 _____

14. $(-y)^7$ _____

11. 4^3 _____

15. $(-4)^4$ _____

12. a^8 _____

16. 6^2 _____

Directions Rewrite each of the following using exponents.

17. $r \cdot r$ _____

21. $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$ _____

18. $(-10) \cdot (-10)$ _____

22. $5 \cdot 5 \cdot 5$ _____

19. $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$ _____

23. $2 \cdot 2$ _____

20. $(-b) \cdot (-b)$ _____

24. $(-n) \cdot (-n) \cdot (-n) \cdot (-n)$ _____

Directions Write an expression for each phrase.

25. c to the third power _____

28. five to the fifth power _____

26. ten to the tenth power _____

29. negative z to the second power _____

27. negative two to the fourth power _____

30. eight to the seventh power _____