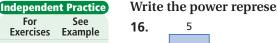


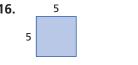
PRACTICE AND PROBLEM SOLVING



16–18	1
19–22	2
23–28	3
29	4

For

Write the power represented by each geometric model.



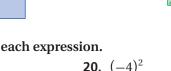
17.

21. -4^2

Simplify each expression.

19. 3³

Extra Practice Skills Practice p. S4 Application Practice p. S28

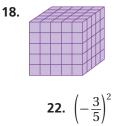


Write each number as a power of the given base.

- **23.** 49: base 7 24. 1000; base 10
- **26.** 1,000,000; base 10 **27.** 64; base 4
- **29. Biology** Protozoa are single-celled organisms. Paramecium aurelia is one type of protozoan. The number of Paramecium aurelia protozoa doubles every 1.25 days. There was one protozoan on a slide 5 days ago. How many protozoa are on the slide now?
- **30. Write About It** A classmate says that any number raised to an even power is positive. Give examples to explain whether your classmate is correct.

Compare. Write < . > . or =

31. 3 ² 3 ³	32. 5^2 2^5	33. 4^2 2^4
35. -2^3 $(-2)^3$	36. -3^2 $(-3)^2$	37. 10 ² 2 ⁶



- **25.** -8; base -2
- 28. 343; base 7



34.	19	1^{4}
38.	2 ²	4^1