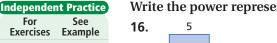


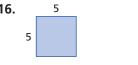
## PRACTICE AND PROBLEM SOLVING



16–18	1
19–22	2
23–28	3
29	4

For

Write the power represented by each geometric model.



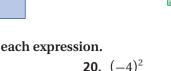
17.

**21.**  $-4^2$ 

Simplify each expression.

**19.** 3<sup>3</sup>

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

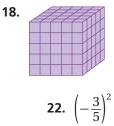


Write each number as a power of the given base.

- **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 =

<b>31.</b> 3 <sup>2</sup> 3 <sup>3</sup>	<b>32.</b> $5^2$ $2^5$	<b>33.</b> $4^2$ $2^4$
<b>35.</b> $-2^3$ $(-2)^3$	<b>36.</b> $-3^2$ $(-3)^2$	<b>37.</b> 10 <sup>2</sup> 2 <sup>6</sup>



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



34.	19	$1^{4}$
38.	2 <sup>2</sup>	$4^1$