

**LESSON**  
**1-3 Exponents**

**Homework and Practice**

Write each expression in exponential form.

1.  $2 \times 2 \times 2 \times 2$

2.  $3 \times 3 \times 3 \times 3 \times 3$

3.  $9 \times 9 \times 9$

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4.  $6 \times 6$

5.  $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5$

6.  $7 \times 7 \times 7 \times 7 \times 7 \times 7$

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Find each value.

7.  $5^2$

8.  $9^3$

9.  $3^4$

10.  $2^6$

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11.  $121^1$

12.  $4^5$

13.  $12^2$

14.  $29^0$

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Compare using  $<$ ,  $>$ , or  $=$ .

15.  $3^4$    $9^2$

16.  $2^4$    $3^3$

17.  $5^3$    $10^2$

18.  $2^2$    $16^1$

19.  $6^2$    $2^5$

20.  $8^2$    $2^6$

21. What whole number equals 49 when it is squared and 343 when it is cubed?

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22. Use exponents to write the number 16 three different ways.

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