

Name: \_\_\_\_\_



PRACTICE



TUTORIAL

## 3-1 Additional Practice

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In 1–3, write the base number for each expression.

1.  $5^{12}$

2.  $1.2^2$

3.  $\left(\frac{1}{3}\right)^4$

In 4–6, write the exponent for each expression.

4.  $7 \times 7 \times 7 \times 7$

5.  $\left(\frac{2}{3}\right)^8$

6.  $0.5 \times 0.5 \times 0.5$

In 7–8, write each power as repeated multiplication. Then evaluate.

7.  $3^4$

8.  $\left(\frac{1}{7}\right)^2$

In 9–12, evaluate each expression.

9.  $9^3$

10.  $\left(\frac{1}{4}\right)^3$

11.  $99^0$

12.  $1.5 \times 10^4$

13. Is the sum of the areas of two smaller squares equal to the area of a large square if the side lengths of the squares are 8 feet, 5 feet, and 3 feet? Note that the area of a square is  $s^2$ , where  $s$  is the side length. Explain.

14. Lexi bought a new car. She drove  $5^4$  miles in the first month that she owned the car and  $4^5$  miles in the second month that she owned the car. How many miles did Lexi drive in all during the first two months that she owned the car?

15. **Construct Arguments** Is  $0.3^4$  equal to  $0.9^2$ ? Explain.

16. What are two ways that you can represent 27 using 3?

