

## Multi-Part Lesson 1-3: Powers of 10

### Part D

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Write each product using an exponent.

1.  $4 \times 4 \times 4 \times 4$

2.  $10 \times 10 \times 10$

3.  $14 \times 14$

4.  $3 \times 3 \times 3 \times 3$

5.  $2 \times 2 \times 2$

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

7.  $8.2 \times 8.2 \times 8.2$

8.  $7 \times 7 \times 7 \times 7 \times 7 \times 7$

9.  $9.5 \times 9.5 \times 9.5$

Write each power as a product of the same factor. Then find the value.

10.  $9^4$

11.  $2^3$

12.  $3^5$

13.  $4^3$

14.  $6^5$

15.  $5^4$

16.  $8.5^3$

17.  $1.3^2$

18. **FOOD** The number of Calories in a small banana can be written as  $2^7$ .

What whole number does  $2^7$  represent?

## Multi-Part Lesson 5-1: Write and Evaluate Expressions

### PART E

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Find the value of each expression.

1)  $12 + 10 - 5 - 6$

2)  $2 \times 3 + 9 \times 2$

3)  $8 + 12 \times 4 \div 8$

4)  $54 \div (8 - 5)$

5)  $4^2 + 3^3$

6)  $(11 - 7) \times 3 - 5$

7)  $25 - 9 + 4$

8)  $100 \div 10 \times 2$

9)  $3 \times 4^3$

10)  $11 + 4 \times (12 - 7)$

11)  $6^2 - 7 \times 4$

12)  $12 + 5^2 - 9$

### PART F

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Evaluate each expression if  $m = 2$  and  $n = 4$ .

1.  $m + m$

2.  $n - m$

3.  $mn$

4.  $3m + 5$

5.  $2n + 2m$

6.  $m \cdot 0$

7.  $64 \div n$

8.  $12 - m$

9.  $5n \div m$

10.  $6mn$

11.  $4n - 3$

12.  $n \div m + 8$

Evaluate each expression if  $a = 3$ ,  $b = 4$ , and  $c = 12$ .

13.  $a + b$

14.  $c - a$

15.  $a + b + c$

16.  $b - a$

17.  $c - a \cdot b$

18.  $a + 2 \cdot b$

19.  $b + c \div 2$

20.  $ab$

21.  $25 + c \div b$

22.  $c \div a + 10$

23.  $2b - a$

24.  $2ab$