

## Chapter 1 Practice Quiz

Show your work on the problems with an asterisk \*.

1. Write the expression  $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$  in exponential form.

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2. Write the expression  $9 \times 9 \times 9 \times 9 \times 9$  in exponential form.

\_\_\_\_\_

3. Write the expression  $5 \times 5 \times 5 \times 5$  in exponential form.

\_\_\_\_\_

4. Write the expression  $8 \times 8$  in exponential form.

\_\_\_\_\_

5. \* Write the expression as repeated multiplication  $4^3$ .

\_\_\_\_\_

6. \* Write the expression as repeated multiplication  $2^5$ .

\_\_\_\_\_

7. \* Find the value of  $9^2$ .

\_\_\_\_\_

8. \* Find the value of  $3^4$ .

\_\_\_\_\_

9. \* Evaluate the expression  $7 \times 3 \div (8 - 5)$ .

\_\_\_\_\_

10. \* Evaluate  $10 + (8 - 4) \times 6$ .

\_\_\_\_\_

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

ID: A

11. \* Evaluate  $3^3 - 6 \times 4 - 2$ .

\_\_\_\_\_

12. \* Evaluate the expression  $30 \div (1 + 2) \cdot 2^3 - 5$ .

\_\_\_\_\_

13. \* A school is having a fund-raiser in which the students sell calendars and raffle tickets. Each calendar costs \$12. Each raffle ticket costs \$4. If a student sold 5 calendars and 6 raffle tickets, evaluate  $5 \times 12 + 6 \times 4$  to find how much money the student should collect.

\_\_\_\_\_

14. \* Compare. Write  $<$ ,  $>$  or  $=$ .

$$6^1 \text{ \_\_\_\_\_\_ } 7^1$$

15. \* Compare. Write  $<$ ,  $>$  or  $=$ .

$$8^2 \text{ \_\_\_\_\_\_ } 4^3$$

16. \* Compare. Write  $<$ ,  $>$  or  $=$ .

$$6^2 \text{ \_\_\_\_\_\_ } 3^3$$

17.

Add parentheses so that the equation is correct. Explain.

$$5 + 7 \times 2 - 3 = 21$$