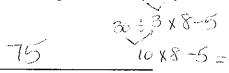# Chapter 1 Practice Quiz

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.

   _4^7_____

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

   _9^5_____

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

   _5^4_____

4. Write the expression 8×8 in exponential form.

   _8^2_____

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

   _$4 \times 4 \times 4$_____

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

   _$2 \times 2 \times 2 \times 2 \times 2$_____

7. * Find the value of 9^2.

   _$9 \times 9 = 81$_____

8. * Find the value of 3^4.

   _$3 \times 3 \times 3 \times 3 = 81$_____

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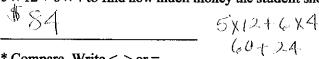
   $7 \times 3 \div 3$

   $24 \div 3$

   _7_____

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

    $10 + 4 \times 6$

    34 $10 + 24$

    _34_____

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

$27 - 6 \times 4 - 2$

$27 - 24 - 2 = 1$

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

$30 \div 3 \times 8 - 5$

75 $10 \times 8 - 5 =$

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.

$\$84$ $5 \times 12 + 6 \times 4$

$60 + 24$

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

$6^1 \ \underline{<} \ 7^1$ $6 < 7$

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

$8^2 \ \underline{=} \ 4^3$ $64 = 64$

$8 \cdot 8$ $4 \cdot 4 \cdot 4$

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

$6^2 \ \underline{>} \ 3^3$ $36 \quad 27$

17. $6 \cdot 6 \quad 3 \cdot 3 \cdot 3$

Add parentheses so that the equation is correct. Explain.

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

$12 \times 2 - 3 = 21$