Name $\qquad$

## Evaluate Expressions Involving Exponents

## Evaluate the expression.

1. $5+17-10^{2} \div 5$
2. $7^{2}-3^{2} \times 4$
3. $2^{4} \div(7-5)$
$5+17-100 \div 5$
$5+17-20$
22-20
2
4. $\left(8^{2}+36\right) \div\left(4 \times 5^{2}\right)$
5. $12+21 \div 3+\left(2^{2} \times 0\right)$
6. $(12-8)^{3}-24 \times 2$

Place parentheses in the expression so that it equals the given value.
7. $12 \div 2 \times 2^{3}$; value: 120
8. $7^{2} \times 1-5 \div 3$; value: 135

## Problem Solving

9. Hugo is saving for a new baseball glove. He saves $\$ 10$ the first week, and $\$ 6$ each week for the next 6 weeks. The expression $10+6^{2}$ represents the total amount in dollars he has saved. What is the total amount Hugo has saved?
10. A scientist placed fish eggs in a tank. Each day, twice the number of eggs from the previous day hatch. The expression $5 \times 2^{6}$ represents the number of eggs that hatch on the sixth day. How many eggs hatch on the sixth day?
