**Module 5**    **Decimal Operations, Exponents, and Powers**
**Lesson 6**    **Powers and Exponents**

**Set 1**

**1**   Write in exponential form.

$8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$

**2**   Evaluate $-3^6$.

**3**   Evaluate 4 to the 4$^{\text{th}}$ power.

**Set 2**

**Evaluate.**

**1**   $-4^2 \times (-2)^4$      **2**   $3(8-4)^3$      **3**   $4^4 - 2^8$

**Set 3**

**Evaluate.**

**1**   $6^3 \times 5^0$      **2**   $8^{-3}$

**Set 4**

**1** A true/false test has 10 questions. How many different ways are there to answer all 10 questions?

**2** On the first day, there were two rabbits. If the number of rabbits doubled every month, how many rabbits were there after six months?