

## Lesson 13: Expressions with Exponents

### Cool Down: Coin Calculation

Andre and Elena knew that after 28 days they would have  $2^{28}$  coins, but they wanted to find out how many coins that actually is. Andre wrote:

$$2^{28} = 2 \cdot 28 = 56$$

Elena said, "No, exponents mean repeated multiplication. It should be  $28 \cdot 28$ , which works out to be 784." Do you agree with either of them? Explain your reasoning.