# Situation 18: Exponential Rules Prepared at UGA Center for Proficiency in Teaching Mathematics 6/28/05-Amy Hackenberg 

## Prompt

Students in an algebra class have just finished a unit on exponential powers, including standard exponential rules and negative exponents. In completing a sheet of true/false questions, most of the students have classified the following statement as false: $2^{17}+2^{17}=2^{18}$.

What kind of mathematical knowledge does the teacher need to consider in responding to the work of the students?

## Commentary

## Mathematical Foci

Mathematical Focus 1
Mathematical Focus 2
Mathematical Focus 3
Mathematical Focus 4

