

**Instructions:** Show all work. Partial credit can only be given where work is shown. Be sure to answer all parts of each question. You may not use a calculator on this quiz.

1. Calculate by hand (without a calculator) the expression  $14(19)$  by rewriting the expression so that you can use the distributive property to calculate it more easily. Verify your result by multiplying by conventional methods.
2. Rewrite  $3^7 \cdot 9^5 \cdot 27^2$  with just one base and one exponent.
3. Simplify the expression  $5^2 - 4^2 + (6 - 4)^2 \div 2^3$  using order of operations.