Complete TIPS Grammar Productions

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First Token Set: { TOK_PROGRAM }
<block> → [ TOK VAR TOK IDENT TOK COLON (TOK INTEGER | TOK REAL) TOK SEMICOLON
           { TOK IDENT TOK COLON (TOK INTEGER | TOK REAL) TOK SEMICOLON } ]
           <compound>
  First Token Set: { TOK_VAR, TOK_BEGIN }
<statement> → <assignment> | <compound> | <if> | <while> | <read> | <write>
  First Token Set: {TOK IDENT, TOK BEGIN, TOK IF, TOK WHILE, TOK READ, TOK WRITE}
<assignment> → TOK IDENT TOK ASSIGN <expression>
  First Token Set: { TOK_IDENT }
<compound> → TOK BEGIN <statement> { TOK SEMICOLON <statement> } TOK END
  First Token Set: {TOK_BEGIN}
<if>→ TOK_IF <expression> TOK_THEN <statement> [ TOK_ELSE <statement> ]
  First Token Set: { TOK IF }
<while> → TOK_WHILE <expression> <statement>
  First Token Set: { TOK_WHILE }
<read> → TOK READ TOK OPENPAREN TOK IDENT TOK CLOSEPAREN
  First Token Set: { TOK_READ }
<write> → TOK WRITE TOK OPENPAREN ( TOK IDENT | TOK STRINGLIT ) TOK CLOSEPAREN
  First Token Set: { TOK WRITE }
<expression> → <simple expression>
             [ ( TOK_EQUALTO | TOK_LESSTHAN | TOK_GREATERTHAN | TOK_NOTEQUALTO )
                <simple expression> ]
  First Token Set: { TOK INTLIT, TOK FLOAT LIT, TOK IDENT, TOK OPENPAREN,
                     TOK NOT, TOK MINUS }
<simple expression> → <term> { ( TOK_PLUS | TOK_MINUS | TOK_OR ) <term> }
  First Token Set: { TOK_INTLIT, TOK_FLOAT_LIT, TOK_IDENT, TOK_OPENPAREN,
                     TOK NOT, TOK MINUS }
<term> → <factor> { ( TOK MULTIPLY | TOK DIVIDE | TOK AND ) <factor> }
  First Token Set: { TOK_INTLIT, TOK_FLOAT_LIT, TOK_IDENT, TOK_OPENPAREN,
                     TOK_NOT, TOK_MINUS }
<factor> → TOK INTLIT | TOK FLOATLIT | TOK IDENT |
            ( TOK_OPENPAREN <expression> TOK_CLOSEPAREN )
            ( TOK_NOT <factor> ) | ( TOK_MINUS <factor> )
  First Token Set: { TOK_INTLIT, TOK_FLOAT_LIT, TOK_IDENT, TOK_OPENPAREN,
                     TOK NOT, TOK MINUS }
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Note: Symbols shown in red are EBNF symbols, not actual symbols expected.