

**3.3** For the input string:

*let z = (17) in z + 2 \* 3 end* we get the following (using the rightmost derivation):

String	Rule
Main	
Expr EOF	A
LET NAME EQ Expr IN Expr END	F
LET NAME EQ EXPR IN Expr TIMES Expr	G
LET NAME EQ Expr IN Expr TIMES 3	C
LET NAME EQ Expr IN Expr PLUS Expr TIMES 3	H
LET NAME EQ Expr IN Expr PLUS 2 TIMES 3	C
LET NAME EQ Expr IN z PLUS 2 TIMES 3	B
LET NAME EQ 17 IN z PLUS 2 TIMES 3	C
LET z EQ 17 IN z PLUS 2 TIMES 3	B

### 3.4

