ROUND

PURPOSE
Compute the rounded value of a number to a user specified number of decimal places.

SYNTAX
LET <y2> = ROUND(<y1>,<n>) <SUBSET/EXCEPT/FOR qualification>
where <y1> is a variable or a parameter containing decimal number(s) to be rounded;
<y2> is a variable or a parameter (depending on what <y1> is) where the computed rounded values are stored;
<n> is a number or parameter that specifies the number of decimal places to use for the rounding;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES
LET A = ROUND(14.2835,1)
LET A = ROUND(A1,2)
LET X2 = ROUND(X1,1)
LET X2 = ROUND(X1-4,2)

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
INT = Compute the integer portion of number.
FRACT = Compute the fractional portion of number.
MOD = Compute the modulo function.

APPLICATIONS
Data transformation

IMPLEMENTATION DATE
87/10

PROGRAM
LET Y1 = NORMAL RANDOM NUMBERS FOR I = 1 1 100
LET Y2 = ROUND(Y1,1)
SET WRITE DECIMALS 1; PRINT Y1 Y2 FOR I = 1 1 15

The following output is generated.

```
-1.1 -1.0
 0.6  1.0
-0.9 -1.0
 0.2  0.0
-0.5  0.0
-0.5 -1.0
-0.7 -1.0
 0.0  0.0
 1.2  1.0
 0.3  0.0
-0.1  0.0
-0.2  0.0
-0.2  0.0
-0.8 -1.0
-0.1  0.0
```