

## Integerexpression, Stringexpression, Realexpression

Throughout this manual, commands are usually described by first giving the general format. For example, the command GRAPHICS is used to set the screen display mode. If A% equals 4% and B% equals 2%, then each of the following statements will set the display to mode 8.

```
10 GRAPHICS 8%
10 GRAPHICS A%+4%
10 GRAPHICS B%+6%
10 GRAPHICS A%*B%
```

Rather than give a series of examples, the general format is given like this:

GRAPHICS integerexpression

Integerexpression is simply a short way of describing an expression which yields an integer. In the same way, the general term stringexpression is used in some formats. Here are some examples of stringexpressions:

```
"EIGHT"
A$
A$+"ABC".
```

An expression with only real numbers and real variables or one with a mixture of real and integer will be called a realexpression. Remember that in a mixed expression the integers are converted to real numbers.

If the format for a command specifies an integerexpression, in almost all cases a realexpression can be used in its place. The system will convert the real number to an integer; however, this will slow down the execution of the command to some extent. For example, the following statements involving the GRAPHICS command are acceptable even though the expressions following the command are not integerexpressions:

```
10 GRAPHICS 8
10 GRAPHICS A+4%
10 GRAPHICS B+6
10 GRAPHICS A*B.
```