Arithmetic 4 What result will be printed in this program?

```
LETA = 3
LET B = 2
LET C = 9
LET D = 4
LETE=(A+B) * (C-D)
PRINTE
LET E=5
LETE=E E E
PRINTE
```

- Comparisons 1 What value of $X$ will be required for the PRINT message to be printed?

```
70 LET A = 5
80 LET B = X
90 LET R = B - A
100 IF R = O THEN GOTO 120
110 GOTO }1
120 PRINT "CONGRATULATIONS! YOU HAVE WON"
99 END
```

- Comparisons 2 What is the smallest value of $X$ that will make the program jump to line 300 ?

```
250 IF X > 6 * 100 THEN GOTO 300
```

- Comparisons 3 What is the smallest value of $Z$ that will make the program jump to the 'congratulations' message?

```
340 IF \(Z<10000\) THEN GOTO 500
350 IF Z > \(=10000\) THEN GOTO 520
```

$\vdots$
500 PRINT "YOUR SCORE IS TOO LOW. TRY AGAIN" 510 GOTO 600
520 PRINT "CONGRATULATIONS. YOU ARE NOW A MASTER'
530 GOTO 700

- Print 1 Assume that the value of T is 50 . Write a PRINT statement that will print THEVALUE OF TIS 50. Hint: Put the 'message' in double quotes, use a semi-colon and the variable name.

Print 2 Look at the following short program and complete the PRINT statement so that the program will print a score message like this:
SORRY, BUT YOUR SCORE OF 175 IS TOO LOW
Complete the line so that the actual value of the score can vary each time.
620 REM VARIABLE S IS THE SCORE SO FAR
620 IF S <= 500 THEN GOTO 640
630 GOTO 700
640 PRINT "SORRY"

- Print 3 What message will be printed when the program is run?
200 LET AS = "THE HOME COMPUTER COURSE ?"
210 LET $B \$$ = "HOW DO YOU LIKE ";
220 PRINT BS
230 PRINT AS

Input 1 INPUT is one way of assigning a value to a variable. If the following program is run, which key will need to be pressed for the program to print out an answer of 12 ?

60 INPUT N
70 LET N = N * 2
80 PRINT N

- Input 2 What will be printed here?

100 PRINT "PLEASE TYPE YOUR NAME"
110 INPUT NS
120 PRINT "HI ";NS;"'IM YOUR COMPUTER"

## Basic Flavours

This program will notrun on the Atari 400 anc 800 because their string handling is so different from that of other machines


