

# Fives (Model A)

A deceptively easy game. Try to find the computer's five-digit numbers by asking just four simple arithmetic questions. Be warned, it is very addictive!

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1  REM *** FIVES ***
2  REM *** FIVES ***
10 GOTO 500
20 ** FIVES **
30 CONVERTED & MODIFIED FOR BBC MICRO
40   By Max Lang                      27 June 1983
50   :
60   FROM A SPECTRUM PROGRAM
70   BY MICHAEL BEWS
80   :
90   :
100  ROUTINE INDEX
110  -----
120  MAIN PROGRAM
130  RANDOM NUMBER:.....1000
140  GET CHAR:.....1100
150  GUESS:.....1200
160  RESIGN:.....1400
170  CORRECT:.....1500
180  WRONG:.....1600
190  INSTRUCTIONS:.....1700
200  TITLE:.....10000
210  WAIT:.....10200
220  YN:.....10300
230  SPACEBAR:.....10500
240  BYE:.....10600
250  ::::::::::::::::::::::::::::
500  REM MAIN PROGRAM
510  MODE7
520  PROC_TITLE("FIVES",1)
530  SIGN$="+-*/"
540  PROC_RANDOM
550  CLS
560  PRINT TAB(15,1)"F I V E S"

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570      PRINT TAB(0,18)"Now enter your questio
ons - one at a time"
580      FOR X=1 TO 4
590          PRINT TAB(0,X*3);X;" " ;
600          PROC_GET_CHAR("FIVES")
610          PRINT G$;
620          FIRST$=MID$(NUM$,P,1)
630          PROC_GET_CHAR(SIGN$)
640          PRINT G$;
650          SIGN$=LEFT$(SIGN$,P-1)+MID$(SIGN$,P
+1)
660          S$=G$
670          PROC_GET_CHAR("FIVES")
680          SECOND$=MID$(NUM$,P,1)
690          IF SECOND$=FIRST$ THEN GOTO 670
700          PRINT G$;
710          T=EVAL(FIRST$+S$+SECOND$)
720          PRINT "=";T
730      NEXT X
740      PRINT TAB(0,18)"Now enter your guess
as a five figure number - ie. 12345. To
resign press ";
750      PROC_GUESS
760      IF GUES$="?" THEN PROC_RESIGN:GOTO 78
0
770      IF GUES$=NUM$ THEN PROC_CORRECT ELSE
PROC_WRONG:GOTO 740
780      PRINT TAB(0,23)"Another go ? (Y/N) ";
790      PROC_YN
800      IF YES THEN PRINT "Yes"; ELSE PRINT "
No";
810      PROC_WAIT(150)
820      IF YES THEN GOTO 530
830      PROC_BYE
840      ::::::::::::::::::::
1000     DEF PROC_RANDOM
1010     FOR X=1 TO 5
1020         R$=STR$(RND(9))
1030         IF X=1 THEN NUM$=R$:GOTO 1060
1040         IF INSTR(NUM$,R$) THEN GOTO 1020
1050         NUM$=NUM$+R$
1060     NEXT X
1070     ENDPROC
1080     ::::::::::::::::::::
1100     DEF PROC_GET_CHAR(C$)

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1110      *FX21,0
1120      REPEAT
1130          G$=GET$
1140          P=INSTR(C$,G$)
1150          UNTIL P<>0
1160      ENDPROC
1170      ::::::::::::::::::::::::::::::::::::
1200      DEF PROC_GUESS
1210          INPUT GUES$
1220          IF GUES$="?" THEN ENDPROC
1230          IF LEN(GUES$)=5 THEN GOTO 1270
1240          PRINTTAB(0,20)STRING$(LEN(GUES$)," ")
1250          PRINTTAB(39,19);
1260          GOTO 1210
1270          X=0
1280          X=X+1
1290          M=ASC(MID$(GUES$,X,1))
1300          IF M<48 OR M>57 THEN GOTO 1240
1310          IF X<5 THEN GOTO 1280
1320      ENDPROC
1330      ::::::::::::::::::::::::::::::::::::::
1400      DEF PROC_RESIGN
1410          PRINT TAB(0,18)STRING$(120," ")
1420          PRINT TAB(0,18)"The answer is ";NUM$
1430          FOR X=1 TO 4:SOUND 1,-15,12-3*X,20:NE
XT X
1440      ENDPROC
1450      ::::::::::::::::::::::::::::::::::::::
1500      DEF PROC_CORRECT
1510          PRINT TAB(0,18)STRING$(80," ")
1520          PRINT TAB(0,18)CHR$(136);"YES";CHR$(1
37);" thats correct "
1530          FOR X=1 TO 150:SOUND 1,-15,X*5,1:NEXT
X
1540      ENDPROC
1550      ::::::::::::::::::::::::::::::::::::::
1600      DEF PROC_WRONG
1610          PRINT TAB(0,19)STRING$(20," ")
1620          PRINT TAB(0,18)"NO ";GUES$;" is not t
he correct answer "
1630          SOUND 1,-15,10,20:SOUND 0,-15,6,20
1640          PRINT TAB(0,23)"Press any key to cont
inue";
1650          G=GET
1660          PRINT TAB(0,23)STRING$(30," ")

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1670      ENDPROC
1680      ::::::::::::::::::::::::::::::::::::
1700      DEF PROC_INSTRUCT
1710      CLS
1720      PRINT TAB(1,1)"F I V E S"
1730      PRINT TAB(1,2)"-----"
1740      PRINT TAB(0,4)"1) I will think of a n
umber containing      five different digits."
1750      PRINT:PRINT "2) To help you guess wha
t my number is      I will answer four questio
ns in the      form eg. F*I, or V-F, or S/E, o
r V+S."
1760      PRINT:PRINT "3) But you are only allo
wed to use each      *,/,+ and - sign once - so
think      carefully about your questions.
"
1770      PRINT:PRINT "4) When you have asked t
he questions I      will give you the chance t
o guess my      number."
1780      PROC_SPACEBAR
1790      ENDPROC
1800      ::::::::::::::::::::::::::::::::::::
10000     DEF PROC_TITLE(T$,I):REM I=0 - NO INS
TRUCTION OPTION, I=1 - OPTION
10010     CLS
10020     PRINT TAB(1,1)"Max Lang"
10030     PRINTTAB(19-LEN(T$)/2,10)CHR$(141);T$
10040     PRINTTAB(19-LEN(T$)/2,11)CHR$(141);T$
10050     PROC_WAIT(150)
10060     IF I=0 THEN ENDPROC
10070     PRINT TAB(0,22)"Do you require instru
ctions ? ";
10080     PROC_YN
10090     IF YES THEN PRINT "Yes"; ELSE PRINT "
No";
10100     PROC_WAIT(150)
10110     IF YES THEN PROC_INSTRUCT
10120     ENDPROC
10130     ::::::::::::::::::::::::::::::::::::
10200     DEF PROC_WAIT(T)
10210     LOCAL NOW
10220     NOW=TIME
10230     REPEAT
10240     UNTIL TIME=NOW+T
10250     ENDPROC
```



```

10260      ::::::::::::::::::::::::::::::::::::
10300      DEF PROC_YN
10310      *FX21,0
10320      LOCAL G
10330      REPEAT
10340          G=GET
10350          G=G+32*(G>95): REM CONVERT TO CAPIT
10360      YES=(G=89)
10370      NO=(G=78)
10380      UNTIL YES OR NO
10390      ENDPROC
10400      ::::::::::::::::::::::::::::::::::::::
10500      DEF PROC_SPACEBAR
10510      PRINT TAB(0,23)"Press SPACEBAR to con
tinue.";
10520      LOCAL G
10530      *FX21,0
10540      REPEAT
10550          G=GET
10560      UNTIL G=32
10570      CLS
10580      ENDPROC
10590      ::::::::::::::::::::::::::::::::::::::
10600      DEF PROC_BYE
10610      CLS
10620      PRINT TAB(18,10)CHR$(141);"BYE"
10630      PRINT TAB(18,11)CHR$(141);"BYE"
10640      PRINT TAB(0,23);
10650      END
10660      ::::::::::::::::::::::::::::::::::::::

```



