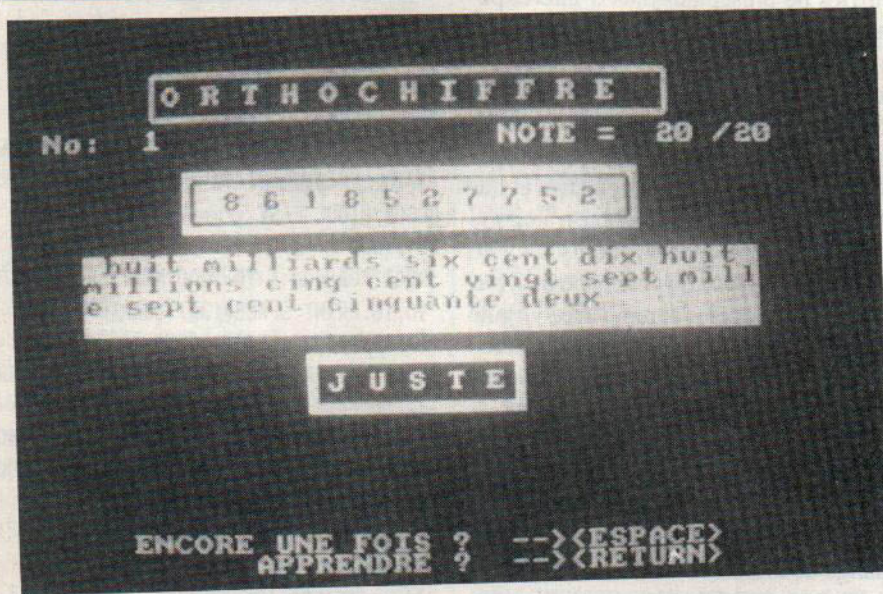


EDUCATIF

ORTHOCHIFFRE

D. CANTILLAC



Le but de cet éducatif est d'apprendre aux enfants (bien que les essais aient profité aux plus grands) l'orthographe bien particulière des nombres en langue française.

Valable pour
 CPC 464
 CPC 664
 CPC 6128

Il s'utilise de deux façons différentes, soit en mode "apprendre", soit en mode "jouer". Les deux pouvant se substituer à tout moment. ▶



Le mode "apprendre" permet d'imposer à l'ordinateur un nombre de son choix de dix chiffres au maximum. Plus de dix chiffres ne présentant plus d'intérêt pédagogique. Aussitôt le nombre affiché, la réponse apparaît.

Le mode "jouer" propose le tirage d'un nombre (10 chiffres maximum) d'une façon complètement aléatoire et à la manière du jeu télévisé "Des chiffres et des lettres". Le programme accepte n'importe quel format de réponse (majuscules ou minuscules, espace ou non, et ne tient pas compte de symboles comme tiret, virgule ou point). La réponse n'est considérée comme fautive que dans le cas d'une erreur d'orthographe.

En cas d'erreur, le programme propose de refaire un essai ou de donner la solution. Une notation simple s'effectue au fil de l'exercice mais repart à zéro si on change de mode.

L'auteur reste à l'entière disposition des éventuels usagers et à l'écoute de toutes les suggestions.

```

10 '----- orthochiffre ----- >LA
20 '---- par CANTILLAC D.----- >LB
30 '----- 05/88 ----- >LC
50 INK 0,1:INK 1,24:INK 2,10:INK 3, >EP
24,10
100 MODE 1 >GK
120 TAG:xp=160 >YG
130 tit$="ORTHOCHIFFRE" >UC
140 FOR n=1 TO 12:GOSUB 60000:t$=MI >QY
D$(tit$,n,1)+" ":GOSUB 55000:NEXT
150 t$=" "+STRING$(14," ") >UU
160 FOR x=-198 TO 170 STEP 8:MOVE x >YJ
,286:PRINT t$;:NEXT
170 ti$="par CANTILLAC D.":n=0 >AK
180 FOR x=176 TO 432 STEP 16:GOSUB >FM
62200:GOSUB 62100:MOVE x,200:n=n+1:
PRINT MID$(ti$,n,1);:NEXT
190 a=19:b=21:c=11:d=13 >RP
200 FOR n=1 TO 10:WINDOW#1,a,b,c,d: >UE
PAPER#1,1:CLS#1
210 a=a-2:b=b+2:c=c-1:d=d+1 >VZ
220 NEXT >DK
300 TAGOFF >UH
320 MODE 1:PAPER#1,0 >NG
4900 LOCATE 8,2:PRINT"O R T H O C H >PL
I F F R E"
4910 LOCATE 7,1:PRINT CHR$(150);STR >CG
ING$(25,154);CHR$(156)
4920 LOCATE 7,2:PRINT CHR$(149):LOC >EM
ATE 33,2:PRINT CHR$(149)
4930 LOCATE 7,3:PRINT CHR$(147);STR >CP
ING$(25,154);CHR$(153)
5000 FOR qaz=4 TO 25:LOCATE 1,qaz:P >CB
RINT CHR$(18):NEXT:WINDOW#3,2,39,24
,25:WINDOW#2,2,39,4,4
5005 nbpb=0:moy=0:nbpbj=0 >VV
5010 LOCATE 5,6:PRINT"VOULEZ-VOUS : >LZ
":CLS#3:PRINT#3,"choix par < ESPACE
> puis < RETURN >"
5050 a$=" APPRENDRE ":b$=" JOUER ": >NT
c$=" FIN "
5080 x=3:y=1:z=1:s=0 >PG
5100 LOCATE 10,12:PEN x:PRINT a$ >ZX
5110 LOCATE 10,14:PEN y:PRINT b$ >ZC
5120 LOCATE 10,16:PEN z:PRINT c$ >ZH
5200 IF INKEY(47)<>-1 THEN 5300 ELS >RY
E IF INKEY(18)<>-1 THEN 5500 ELSE 5

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200
5300 s=s+1:IF s=3 THEN s=0 >UB
5350 IF s=0 THEN x=3:y=1:z=1 >WZ
5360 IF s=1 THEN x=1:y=3:z=1 >WB
5370 IF s=2 THEN x=1:y=1:z=3 >WD
5400 FOR ghj=0 TO 400:NEXT:GOTO 510 >DC
0
5500 IF x=3 OR y=3 THEN FOR qaz=6 T >KY
0 23:LOCATE 1,qaz:PRINT CHR$(18):NE
XT:GOTO 10000
5600 MODE 0:PRINT:PRINT:PRINT:PRINT >EW
:PRINT " A LA PROCHAINE":FOR asdf
=0 TO 3000:NEXT:CALL 0
10000 CALL &BBO3:CLS#3:PEN 1:FOR ty >XU
=1 TO 10:ch$(ty)="":ch$(ty)=0:rep$(t
y)="":NEXT ty:LOCATE#3,4,2:INPUT#3,
"AVEC COMBIEN DE CHIFFRES ? ":"gross
$
10020 IF gross$="0" THEN LOCATE 10,1 >GB
0:PEN 3:PRINT "PAS TROP DIFFICILE ?
?":GOSUB 61000:GOTO 10900
10030 IF LEFT$(gross$,1)="-" THEN LO >QG
CATE 10,10:PEN 3:PRINT "J'AI DIT CO
MBIEN !!!":GOSUB 61000:GOTO 10900

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10040 IF VAL(gross$)=0 THEN LOCATE 1 >GD
0,10:PEN 3:PRINT "J'AI DIT COMBIEN
!!!":GOSUB 61000:GOTO 10900
10060 IF VAL(gross$)>10 THEN LOCATE >KE
13,10:PEN 3:PRINT "C'EST TROP !!!":
GOSUB 61000 ELSE gross=VAL(gross$):GO
TO 11000
10900 FOR qwe=1 TO 2000:NEXT:LOCATE >TH
10,10:PRINT SPACE$(30):LOCATE#3,33
,2:PRINT#3,SPACE$(4):GOTO 10000
11000 a=(FIX((40-((2*gross)-1))/2))- >CB
1
11050 WINDOW#1,a,a+(2*gross)+2,6,8 >AG
11100 PAPER#1,1:PEN#1,0:CLS#1:PRINT >QC
#1,CHR$(150);STRING$((2*gross)+1,154
);CHR$(156);:PRINT#1,CHR$(149);SPC(
(2*gross)+1);CHR$(149);:PRINT#1,CHR$(
147);STRING$((2*gross)+1,154);CHR$(
153);
11140 '----- selection option -- >DC
-----
11150 x1=0:IF x=3 THEN 13500 >UA
11200 FOR b=1 TO gross:CLS#3:PRINT#3 >XU
," APPUIE SUR LA BARRE <SPACE> PEN
DANT ";:PRINT#3,"LE TEMPS QUE TU VE
UX PUIS RELACHE -LA";
11220 RANDOMIZE(TIME) >RP
11222 n=CINT(RND*9) >NN
11240 IF INKEY(47)=0 THEN 12000 ELS >GN
E 11240
12000 WHILE INKEY(47)=0:c=20:GOSUB >WF
13000:WEND:CLS#3
12100 c=c+140:GOSUB 13000:IF c>600 >TF
THEN GOSUB 62100:GOTO 13110 ELSE 12
100
13000 n=n+1:IF n=10 THEN n=0 >VX
13010 xx=(2*gross)-x1:LOCATE#1,xx,2: >EH
PRINT#1,n;:GOSUB 62000
13080 FOR bnm=0 TO c:NEXT bnm >WH
13100 RETURN >LH
13110 ch(b)=n >GG
13120 x1=x1+2 >HA
13130 NEXT b:GOTO 14950 >RE
13497 ' >EK
13498 '-choix des chiffres (apprend >FA
re)--
13499 ' >FB

```



```
13500 FOR b=1 TO gros >PV
13505 CLS#3:wsx$="":LOCATE#3,4,1:PR >UW
INT#3,"CHOISIS LE CHIFFRE No ";b
13510 wsx$=INKEY$:IF wsx$="" THEN 1 >FA
3510
13520 IF ASC(wsx$)<48 OR ASC(wsx$) >QZ
57 THEN 13505 ELSE ch(b)=VAL(wsx$)
13530 xx=(2#gros)-x1:LOCATE#1,xx,2: >UC
PRINT#1,ch(b)
13540 x1=x1+2 >HG
13550 NEXT b >BA
14950 rep$(1)="milliards ":rep$(2) >ZR
)="millions ":rep$(3)="mille "
14997 ' >FF
14998 ' ----- 10e chiffre --- >FG
-----
14999 ' >FH
15000 IF ch(10)=0 THEN rep$(10)="": >KE
GOTO 15200
15010 RESTORE 50000:FOR d=0 TO 9:RE >WV
AD ecrit$(d):NEXT
15015 IF ch(10)=1 THEN rep$(10)="un >VZ
milliard ":rep$(1)="":GOTO 15200
15020 rep$(10)=ecrit$(ch(10)) >WA
15197 ' >EJ
15198 ' ----- 9e chiffre ---- >EK
-----
15199 ' >FA
15200 IF ch(9)=0 THEN rep$(9)="":GO >HX
TO 15400
15210 RESTORE 50005:FOR e=0 TO 9:RE >WF
AD ecrit$(e):NEXT
15215 IF ch(9)=1 THEN rep$(9)="cent >QL
":GOTO 15400
15220 rep$(9)=ecrit$(ch(9))+>EL
"cent "
:IF ch(8)=0 AND ch(7)=0 THEN rep$(9)
)=ecrit$(ch(9))+>EJ
"cents "
15397 ' >FA
15398 ' ----- 8e chiffre ---- >FB
-----
15399 ' >FC
15400 IF ch(8)=0 OR ch(8)=1 THEN re >VC
p$(8)="":GOTO 16000
15420 RESTORE 50030:FOR f=0 TO 9:RE >WJ
AD ecrit$(f):NEXT
15440 rep$(8)=ecrit$(ch(8)):IF ch(8) >LR
)=8 AND ch(7)=0 THEN rep$(8)="quatr
e vings "
15997 ' >FG
15998 ' ----- 7e chiffre ---- >FH
-----
15999 ' >FJ
16000 IF ch(7)=0 AND ch(8)<>1 AND c >DW
h(8)<>7 AND ch(8)<>9 THEN rep$(7)="
":GOTO 16200
16020 IF ch(8)=1 OR ch(8)=9 THEN RE >NN
STORE 50010:FOR g=0 TO 9:READ ecrit
```

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>PV
$(g):NEXT:rep$(7)=ecrit$(ch(7))
16040 IF ch(8)=7 THEN RESTORE 50015 >XH
:FOR h=0 TO 9:READ ecrit$(h):NEXT:r
ep$(7)=ecrit$(ch(7))
16060 IF ch(8)=2 OR ch(8)=3 OR ch(8) >UN
)=4 OR ch(8)=5 OR ch(8)=6 THEN REST
ORE 50020:FOR i=0 TO 9:READ ecrit$(
i):NEXT:rep$(7)=ecrit$(ch(7))
16070 IF ch(8)=8 THEN RESTORE 50000 >XH
:FOR i=0 TO 9:READ ecrit$(i):NEXT:r
ep$(7)=ecrit$(ch(7))
16080 IF ch(8)=0 THEN RESTORE 50000 >XC
:FOR j=0 TO 9:READ ecrit$(j):NEXT:r
ep$(7)=ecrit$(ch(7))
16120 IF ch(9)=0 AND ch(8)=0 AND ch >FR
(7)=1 THEN rep$(2)="un million ":r
ep$(7)="
16197 ' >EK
16198 ' ----- 6e chiffre ---- >FA
-----
16199 ' >FB
16200 IF ch(6)=0 THEN rep$(6)="":GO >HT
TO 16400
16210 RESTORE 50005:FOR k=0 TO 9:RE >WV
AD ecrit$(k):NEXT
16215 IF ch(6)=1 THEN rep$(6)="cent >QG
":GOTO 16400
16220 rep$(6)=ecrit$(ch(6))+>DE
"cent "
16397 ' >FB
16398 ' ----- 5e chiffre ---- >FC
-----
16399 ' >FD
16400 IF ch(5)=0 OR ch(5)=1 THEN re >UD
p$(5)="":GOTO 17000
16420 RESTORE 50030:FOR l=0 TO 9:RE >WY
AD ecrit$(l):NEXT
16440 rep$(5)=ecrit$(ch(5)):IF ch(5) >LB
)=8 AND ch(4)=0 THEN rep$(5)="quatr
e vings "
16997 ' >FH
16998 ' ----- 4e chiffre ---- >FJ
-----
16999 ' >FK
17000 IF ch(4)=0 AND ch(5)<>1 AND c >DG
h(5)<>7 AND ch(5)<>9 THEN rep$(4)="
":GOTO 17200
17020 IF ch(5)=1 OR ch(5)=9 THEN RE >NP
STORE 50010:FOR m=0 TO 9:READ ecrit
$(m):NEXT:rep$(4)=ecrit$(ch(4))
17040 IF ch(5)=7 THEN RESTORE 50015 >XP
:FOR o=0 TO 9:READ ecrit$(o):NEXT:r
ep$(4)=ecrit$(ch(4))
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```
>UG
)=4 OR ch(5)=5 OR ch(5)=6 THEN REST
ORE 50020:FOR p=0 TO 9:READ ecrit$(
p):NEXT:rep$(4)=ecrit$(ch(4))
17070 IF ch(5)=8 THEN RESTORE 50000 >XP
:FOR p=0 TO 9:READ ecrit$(p):NEXT:r
ep$(4)=ecrit$(ch(4))
17080 IF ch(5)=0 THEN RESTORE 50000 >XJ
:FOR q=0 TO 9:READ ecrit$(q):NEXT:r
ep$(4)=ecrit$(ch(4))
17090 IF ch(6)=0 AND ch(5)=0 AND ch >VD
(4)=1 THEN rep$(4)="
17197 ' >FA
17198 ' ----- 3e chiffre ---- >FB
-----
17199 ' >FC
17200 IF ch(3)=0 THEN rep$(3)="":GO >HN
TO 17400
17210 RESTORE 50005:FOR r=0 TO 9:RE >WL
AD ecrit$(r):NEXT
17215 IF ch(3)=1 THEN rep$(3)="cent >QC
":GOTO 17400
17220 rep$(3)=ecrit$(ch(3))+>EZ
"cent "
:IF ch(2)=0 AND ch(1)=0 THEN rep$(3)
)=ecrit$(ch(3))+>EJ
"cents "
17397 ' >FC
17398 ' ----- 2e chiffre ---- >FD
-----
17399 ' >FE
17400 IF ch(2)=0 OR ch(2)=1 THEN re >UW
p$(2)="":GOTO 18000
17420 RESTORE 50030:FOR s=0 TO 9:RE >WP
AD ecrit$(s):NEXT
17440 rep$(2)=ecrit$(ch(2)):IF ch(2) >XV
)=8 AND ch(1)=0 THEN rep$(2)="quatr
e vings "
17997 ' >FJ
17998 ' ----- 1e chiffre ---- >FK
-----
17999 ' >GA
18000 IF ch(1)=0 AND ch(2)<>1 AND c >CA
h(2)<>7 AND ch(2)<>9 THEN rep$(1)="
":GOTO 19000
18020 IF ch(2)=1 OR ch(2)=9 THEN RE >NT
STORE 50010:FOR t=0 TO 9:READ ecrit
$(t):NEXT:rep$(1)=ecrit$(ch(1))
18040 IF ch(2)=7 THEN RESTORE 50015 >XV
:FOR v=0 TO 9:READ ecrit$(v):NEXT:r
ep$(1)=ecrit$(ch(1))
18060 IF ch(2)=2 OR ch(2)=3 OR ch(2) >UA
)=4 OR ch(2)=5 OR ch(2)=6 THEN REST
ORE 50020:FOR w=0 TO 9:READ ecrit$(
w):NEXT:rep$(1)=ecrit$(ch(1))
18070 IF ch(2)=8 THEN RESTORE 50000 >XV
:FOR w=0 TO 9:READ ecrit$(w):NEXT:r
ep$(1)=ecrit$(ch(1))
18080 IF ch(2)=0 THEN RESTORE 50000 >AD
```



```
:FOR ab=0 TO 9:READ ecrit$(ab):NEXT
:rep$(1)=ecrit$(ch(1))
19000 IF ch(10)=0 THEN rep$(1)=" >ZG
19005 IF ch(9)=0 AND ch(8)=0 AND ch >XY
(7)=0 THEN rep$(2)="
19010 IF ch(6)=0 AND ch(5)=0 AND ch >XK
(4)=0 THEN rep$(3)="
19080 reponse$=" "+rep$(10)+rep$( >QX
1)+rep$(9)+rep$(8)+rep$(7)+rep$(2)
+rep$(6)+rep$(5)+rep$(4)+rep$(3)+r
ep$(3)+rep$(2)+rep$(1)
19090 IF reponse$=" " THEN reponse >UQ
$=" zero "
19100 lon=LEN(reponse$) >TD
19120 h=(lon\34)+1:WINDOW#7,4,37,10 >MP
,h+10:PAPER#7,1:PEN#7,0:CLS#7
19980 '----- selection ----- >FC
19990 IF x=1 THEN 25000 :'----- s >QD
election -----
19997 ' >GA
19998 '----- apprendre ----- >GB
19999 ' >GC
20000 FOR n=1 TO lon >NX
20065 PRINT#7,MID$(reponse$,n,1); >CB
20070 IF POS(#7)>30 AND (MID$(repon >PL
se$,n,1)=" " OR MID$(reponse$,n,1)=
"-") THEN decal=1
20080 IF decal=1 AND (MID$(reponse$ >XJ
,n,1)=" " OR MID$(reponse$,n,1)="-"
) THEN PRINT#7:PRINT#7," ";:decal=0
20098 GOSUB 62200:FOR qw=1 TO 100:N >TZ
EXT:GOSUB 62000
20100 NEXT n >BB
20120 CLS#3:PRINT#3," ENCORE UNE >UN
FOIS ? --><SPACE>":PRINT#3,"
JOUER ? --><RETURN>";
20160 IF INKEY(47)<>-1 THEN CLS#3:F >BF
OR qaz=5 TO 23:LOCATE 1,qaz:PRINT C
HR$(18):NEXT:GOTO 10000
20180 IF INKEY(18)<>-1 THEN 5000 >YW
20190 GOTO 20160 >BD
24997 ' >FG
24998 '----- reponse au jeu---- >FH
24999 ' >FJ
25000 r$="":rx$="" >LG
25010 FOR n=1 TO lon >ND
25020 rx$=MID$(reponse$,n,1):IF rx$ >FQ
=" " OR rx$="-" THEN rx$=""
25040 r$=r$+rx$ >ZB
25060 NEXT >TB
25500 nbpb=nbpb+1:LOCATE#2,1,1:PRIN >XD
T#2,"No: ";nbpb
26000 t$="":tx$="":tl$="" >RC
26020 CLS#3:PRINT#3," ECRIS LE >AK
NOMBRE EN LETTRES"
26040 CALL &B03 >AE
```

```
26100 LOCATE#7,2,1:LINE INPUT#7,"", >ZG
tl$:lon1=LEN(tl$)
26120 FOR n=1 TO lon1 >QK
26140 tx$=MID$(tl$,n,1):IF ASC(tx$) >UT
<65 OR (ASC(tx$)>90 AND ASC(tx$)<97
) OR ASC(tx$)>122 THEN tx$="" ELSE
tx$=LOWER$(tx$)
26160 t$=t$+tx$ >AB
26180 NEXT >TF
26300 IF r$t$ THEN GOSUB 40000 ELS >NT
E GOSUB 42000
27520 CLS#3:PRINT#3," ENCORE UNE >WC
FOIS ? --><SPACE>":PRINT#3,"
APPRENDRE ? --><RETURN>";
27540 IF INKEY(47)<>-1 THEN CLS#3:F >BQ
OR qaz=5 TO 23:LOCATE 1,qaz:PRINT C
HR$(18):NEXT:GOTO 10000
27560 IF INKEY(18)<>-1 THEN 5000 >YF
27570 GOTO 27540 >DB
39997 ' >GC
39998 '----- s/p JUSTE----- >GD
--
39999 ' >GE
40000 LOCATE 15,15:PRINT CHR$(135); >KD
STRING$(9,131);CHR$(139):LOCATE 15,
16:PRINT CHR$(133):LOCATE 25,16:PRI
NT CHR$(138):LOCATE 15,17:PRINT CHR
$(141);STRING$(9,140);CHR$(142)
40010 PEN 3:LOCATE 16,16:PRINT"J U >PG
S T E":PEN 1
40020 GOSUB 60000 >LM
40040 nbpbj=nbpbj+1 >PP
40050 GOSUB 44000 >LT
41990 RETURN >NF
41997 ' >FF
41998 '-----s/p FAUX----- >FG
--
41999 ' >FH
42000 LOCATE 16,15:PRINT CHR$(135); >KD
STRING$(7,131);CHR$(139):LOCATE 16,
16:PRINT CHR$(133):LOCATE 24,16:PRI
NT CHR$(138):LOCATE 16,17:PRINT CHR
$(141);STRING$(7,140);CHR$(142)
42010 PEN 3:LOCATE 17,16:PRINT"F A >MZ
U X":PEN 1
42020 GOSUB 61000 >LQ
42030 GOSUB 44000 >LT
42100 CLS#3:PRINT#3," VEUX-TU L >AA
A SOLUTION --><S>":PRINT#3," 0
U REFAIRE UN ESSAI --><RETURN>";
42110 CALL &B06:FOR qaz=15 TO 18:L >MP
OCATE 1,qaz:PRINT CHR$(18):NEXT
42120 IF INKEY(18)<>-1 THEN CLS#7:G >LF
```

```
OTO 25500
42200 WINDOW#6,4,37,17,h+17:PAPER#6 >WY
,1:PEN#6,2:CLS#6
42210 FOR n=1 TO lon >NE
42220 PRINT#6,MID$(reponse$,n,1); >CX
42230 IF POS(#6)>30 AND (MID$(repon >PH
se$,n,1)=" " OR MID$(reponse$,n,1)=
"-") THEN decal=1
42240 IF decal=1 AND (MID$(reponse$ >XJ
,n,1)=" " OR MID$(reponse$,n,1)="-"
) THEN PRINT#6:PRINT#6," ";:decal=0
42250 GOSUB 62200:FOR qw=1 TO 100:N >TT
EXT:GOSUB 62000
42260 NEXT >TC
43990 RETURN >NH
43997 ' >FH
43998 '-----S/P MOYENNE ET NOTE---- >FJ
--
43999 ' >FK
44000 moyenne=(nbpbj*20)/nbpb:moy=R >ZJ
OUND(moyenne,1)
44020 LOCATE#2,24,1:PRINT#2,CHR$(18 >CT
);"NOTE = ";moy;"/20";
44990 RETURN >NJ
50000 DATA " ", "un ", "deux ", "trois >EQ
", "quatre ", "cinq ", "six ", "sept "
, "huit ", "neuf "
50005 DATA " ", " ", "deux ", "trois >AY
", "quatre ", "cinq ", "six ", "sept ",
" huit ", "neuf "
50010 DATA "dix ", "onze ", "douze ", >JJ
"treize ", "quatorze ", "quinze ", "se
ize ", "dix-sept ", "dix-huit ", "dix-
neuf "
50015 DATA "dix ", "et onze ", "douze >QB
", "treize ", "quatorze ", "quinze ",
"seize ", "dix-sept ", "dix-huit ", "d
ix-neuf "
50020 DATA " ", "et un ", "deux ", "tr >XG
ois ", "quatre ", "cinq ", "six ", "sep
t ", "huit ", "neuf "
50030 DATA " ", " ", "vingt ", "trente >BH
", "quarante ", "cinquante ", "soixan
te ", "soixante ", "quatre vingt ", "q
uatre vingt "
55000 xp=xp+20:FOR x=640 TO xp STEP >WH
-4:MOVE x,300:PRINT t$;:NEXT:RETURN
60000 ENV 1,5,2,50:ENT -1,3,-10,10 >QU
,2,10,10:SOUND 1,142,0,5,1,1:RETURN
61000 ENV 2,4,-2,50:ENT -2,6,2,1,4, >HJ
-2,1:SOUND 1,300,0,15,2,2:RETURN
62000 SOUND 1,500,1,15,,30:RETURN >BZ
62100 ENV 1,4,0,5,7,-2,2:ENT -1,12, >ZL
1,1,15,-1,1:SOUND 1,110,0,15,1,1,1:
RETURN
62200 SOUND 1,200,10:RETURN >VY
```