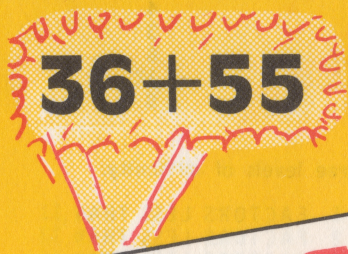


# MATHS INVADERS

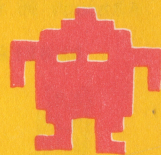
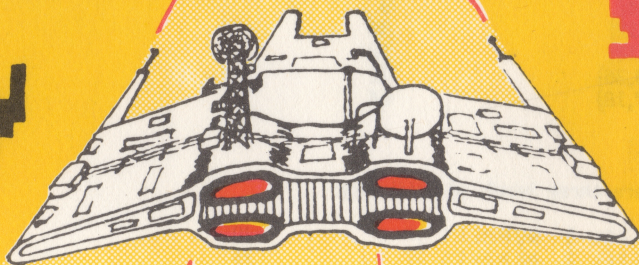
$46 \div 4$   $55 \times 6$   $\frac{3}{4}$  of 100

$17 \times 12$   $105 - 35$   $17 + 59$

$\frac{1}{4}$  of 35  $36 + 55$   $8 \times 5$



## FRACTION ACTION



## Computer Cognition

## HIGHEST COMMON FRACTURE

This game is one in which the invaders are pairs of numbers, each separated by a comma.

The highest common factor (HCF) of any two numbers is the highest number which divides into both numbers evenly.

NUMBER PAIR	HIGHEST COMMON FACTOR
{8,4}	4
{9,12}	3
{6,12}	6
{24,36}	12
{27,18}	9

There are three levels of difficulty:

LEVEL 1 FACTORS LESS THAN 11  
LEVEL 2 FACTORS LESS THAN 13  
LEVEL 3 FACTORS LESS THAN 16

## LOWEST COMMON MUTILATOR

This game is one in which the invaders are pairs of numbers, each separated by a comma.

The lowest common multiple (LCM) of any two numbers is the lowest number into which both will evenly divide. For instance, the LCM of 8 and 12 is 24. Although 96 is also a multiple of both, it is not the lowest.

NUMBER PAIR	LOWEST COMMON MULTIPLE
{8,4}	8
{9,12}	36
{6,12}	12
{24,36}	72
{27,18}	54

There are three levels of difficulty:

LEVEL 1 NUMBERS UP TO 30  
LEVEL 2 NUMBERS UP TO 35  
LEVEL 3 NUMBERS UP TO 48

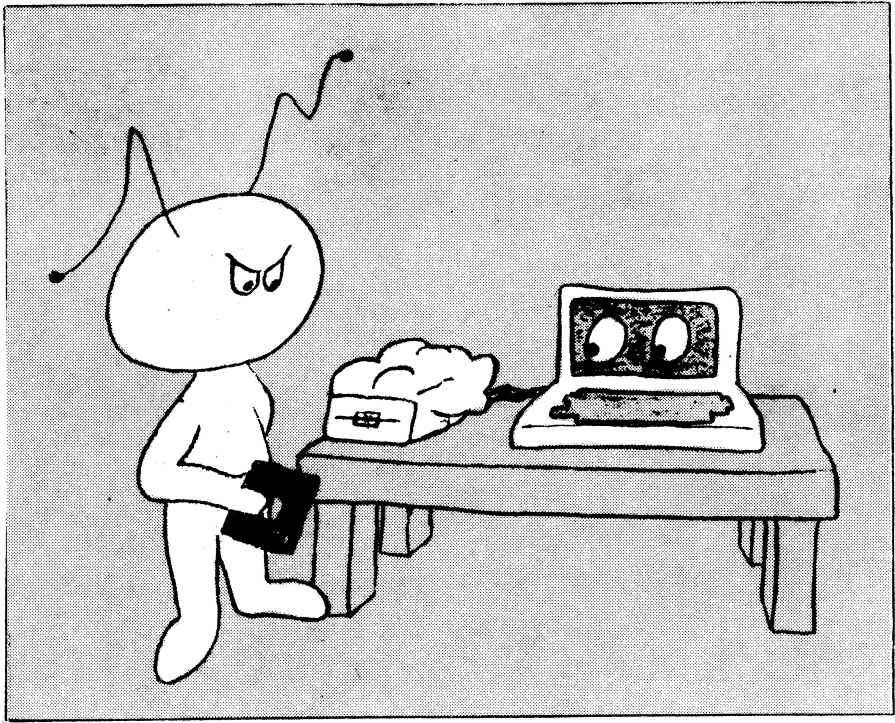
**FRACTION ACTION**

This game is one in which the invaders are expressions which have a fraction.  
eg  $3/5$  of 20                      ( $1/5$  of 20 = 4;  $3 \times 4 = 12$ )

There are 3 levels of difficulty:

LEVEL	MAX. NUMERATOR	MAX DENOMINATOR	MAX. NUMBER
1	1	5	30
2	4	5	45
3	9	10	90

Note that some fractions may appear in a non reduced form. (eg  $6/8$   $3/9$ )



HMM... FIRST I CAN'T FIND HALF MY DISKS -  
NOW I CAN'T FIT THIS ONE IN THE DISK DRIVE!

## QUICK REFERENCE

### LOADING.

Put the disk in the drive, label up, and turn on the computer. When the game has finished loading, replace the disk in its cover.

### STARTING.

As soon as you see the flashing message on the bottom, you can hit S to start.

### NAME.

Type your name and hit [RETURN], or hit [RETURN] with no name.

### CHOOSING

Hit: P to change number of Players  
A to change number of Armies

Hit a number to choose your game.  
Hit any key to change your mind.

### PLAYING

Type in your answer and hit [SPACE] or [RETURN] to fire.

### KEYS.

← or → to move cannon.  
[SPACE] or [RETURN] to fire answer.  
[ESC] to change answer.  
[CTRL]-O to turn sound off.  
[CTRL]-S to turn sound on.  
[CTRL]-F for fast advance.  
[CTRL]-Q to quit game.

[CTRL]-R to review keys.

### DEMONSTRATION

Type DEMO for name  
OR Wait.

FOR

**APPLE II or IIe**

48k with DOS 3.3  
OR COMPATIBLE  
CAN BE BACKED UP

DISTRIBUTED BY COMPUTER COGNITION

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