• • • • • • • • • • • • • • •	· · · · Objective · · · · · ·	• • • • • • • • • • • •
	or onjective or or or	

Read whole numbers and understand that the position of a digit signifies its value. Understand and use the concept of place value in whole numbers.

••••••••••• Explanation of the activity ••••••••••

Think of a 3-digit number and enter it into your calculator.

Pretend each digit is a "bowling pin."

Knock down each pin one at a time, so that your calculator display shows 0.

A: Using subtraction B: Using addition

•••• Using the calculator ••••

Calculator functions used: Subtraction, addition, last answer memory

A: Using subtraction

Press the following buttons and then start operation.

ON/C MODE 0

(I) Enter a 3-digit number.

638 =

638= 638.

(2) Knock down one digit, or "pin"; i.e. change the last digit to a 0.

– 8 **=**

AN5-8=

(3) Knock down the next pin; i.e. change the tens column digit to 0.

— 30 =

AN5-30= BEG 800.

(4) Knock down the pin of the hundreds column.

─ 600 =

ANS-600=DEG

B: Using addition

Press the following buttons and then start operation.

ON/C MODE 0

(I) Enter a 3-digit number.

638 =

638= *638.*

(2) Knock down one digit, or pin; i.e. change the last digit to a 0, except this time, do so by adding a number to the last digit to make it 0.

+ 2 =

AN5+2= *540.*

(3) Knock down the next pin; i.e. change the tens column digit to 0.

+ 60 =

AN5+60=

(4) Knock down the pin of the hundreds column.

+ 300 =

AN5+300= 1000.

•••••••• Using the activity in the classroom •••••

This activity is a good game for students to play in pairs.

One student enters a number in the calculator, and the other student has to knock each digit, or "pin," down.

Example:

638 - 8 = 630

630 - 30 = 600

600 - 600 = 0

• • • • • Points for students to discuss • • • • •

It is important for students to talk about what they are doing and use the appropriate language, for example: "six hundred and thirty, minus thirty, equals six hundred." Students should be challenged to vary the starting point; i.e. sometimes starting with the hundreds digit and sometimes with the tens digit.

Further Ideas

• Play the game using 2-, 4-, or 5-digit numbers according to the ability of the students.