

Overview:

This program is designed to help students understand the value of the Tens place as a collection or group of ten items. It allows for regrouping or “make a ten” activities to be visually displayed using multiple materials, including Unifix cubes, bundling sticks, and base ten blocks, as well as real world objects such as gum, pencils and marbles.

Main Interface:

The screenshot shows the 'EASY PLACE VALUE TO 99' interface. It features a central workspace divided into 'Tens' and 'Ones' columns by a vertical dotted line. The 'Tens' column contains six vertical stacks of yellow blocks, representing 69 (5 full tens and 1 partial ten). The 'Ones' column contains nine individual yellow blocks. Below the workspace are two boxes: a 'NAME' box containing the text 'sixty-nine' and a 'NUMERAL' box containing the digits '69'. On the left side, there is a 'Toolbox' with various icons, a keypad with numbers 1-9, 0, and '+', and a 'Close' button. On the right side, there are '+ -' buttons for the 'Ones' place and a 'Close' button. Red arrows point from callout boxes to these specific elements.

Toolbox: multiple tools allow for manipulation on screen

Materials: Ones place
Tens place

Close button: hides or displays place labels and dividing line

LED Screen: for display of number as entered

Close button: will hide the number as it is entered

Keypad: for entering numbers to be shown on screen

+ - : facilitate counting on or back by ones or tens

NAME Box: shows or hides the number name

NUMERAL Box: shows or hides the numerical symbol

Toolbox:



Pointer: resets cursor to a pointer



Pen: hold down for a pop-out panel to select one of the nine shades available



Animation: turns animation of grouping of ten on or off



Reset: resets the number shown back to zero



Add Tens: counts on 1, 2 or 5 tens



Adds Ones: counts on 1, 2 or 5 ones



Information: about this Gadget software



Eraser: removes all pen marks



Resource Materials: hold down for a pop-out panel to select resource type



Counting: hold for a pop-out panel to select counting by 1, 2 or 5

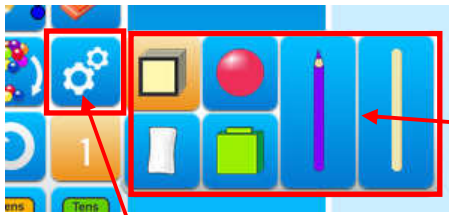


Subtract Tens: counts back by 1, 2 or 5 tens



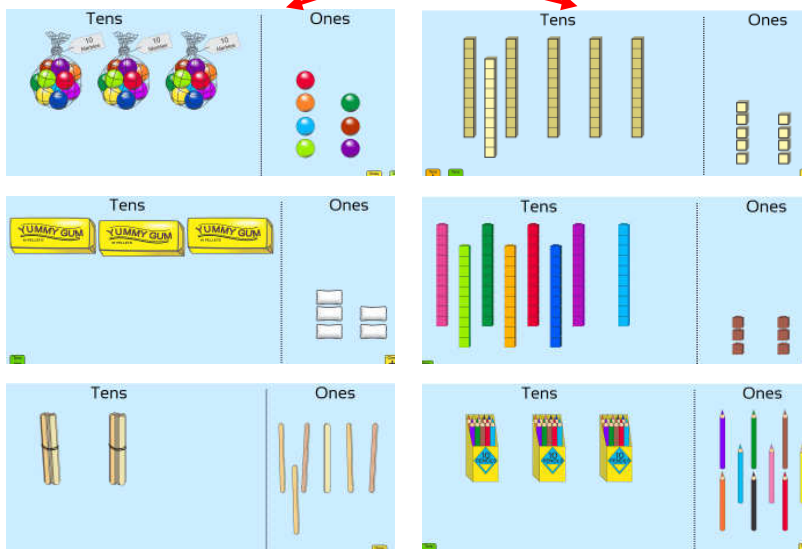
Subtract Ones: counts back by 1, 2 or 5 ones

Toolbox: Continued



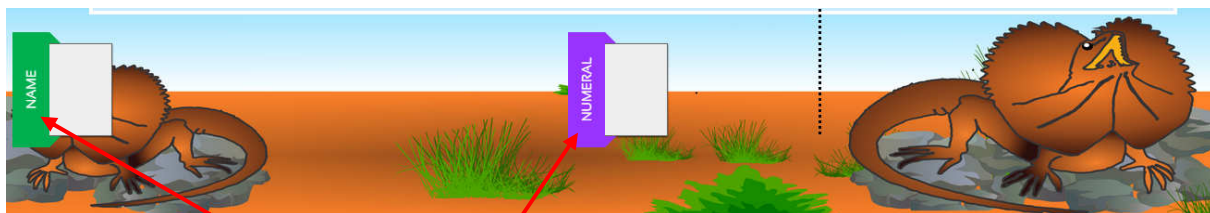
Resources: hold down and pop-out panel appears

Pop-out Panel: Choose from
Base ten blocks
Gum
Marbles
Unifix cubes
Pencils
Bundling Sticks



Counting: hold down and pop-out panel appears

Choose Between:
Counting by 1s, skip
counting by 2s or 5s

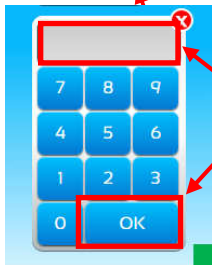
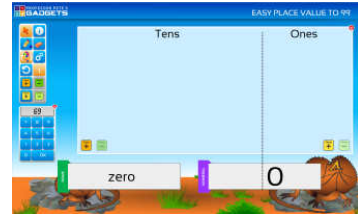


NAME and NUMERAL: click to hide or reveal

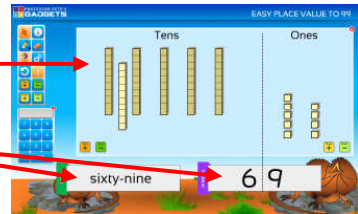
Keypad: Behaviour



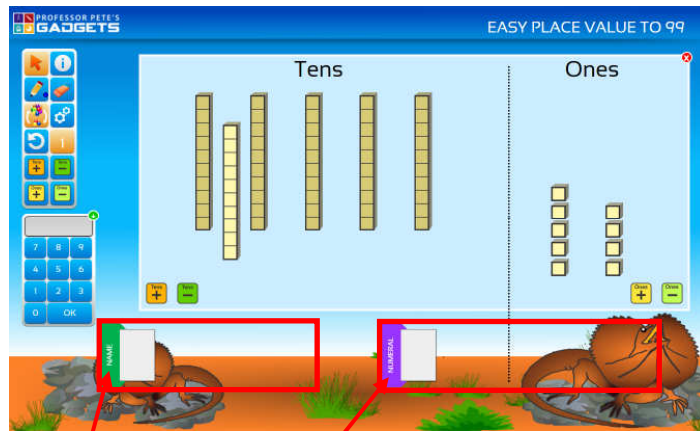
Enter Number: to be displayed using chosen materials



OK: Click to show selected materials on screen
Number in LED disappears
Numeral and name appear in boxes (unless hidden)



Hide or Reveal : Click the cross and the number does not show in the LED screen whilst entering. Click OK and the hidden number entered will show on the screen. Best used with the NAME and NUMERAL hidden. This allows for secretly entering a number and then asking students to write the number shown by the manipulatives on-screen.



NAME and NUMERAL: hidden

EASY PLACE VALUE

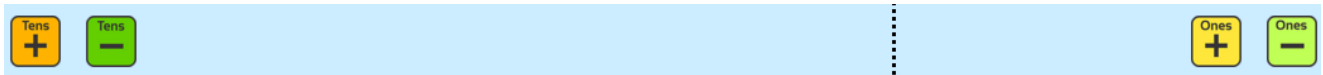


Count on / back: Tens

Count on / back: Ones

Duplicated Functions:

These buttons located in the toolbox and below the tens and ones places have identical functions



Count on / back: Tens

Count on / back: Ones