

Rounding

Rounding - Overview

This programme gives pupils practice in rounding numbers. There are two versions:

Whole numbers

- Choose whether you want to look at 2-digit, 3-digit, 4-digit or 5-digit numbers.
- Choose whether to round to the nearest ten, hundred or thousand.

Decimals

- Choose whether you want to look at numbers with 1 decimal place, 2 decimal places or 3 decimal places
- Choose whether to round to the nearest whole number, tenth or hundredth.

Rounding – How to use

The screenshot shows the Rounding programme interface in Microsoft Excel. The interface includes a title bar, menu bar, and main workspace. The workspace contains the following elements:

- A red button labeled "NEW START NUMBER".
- A dropdown menu labeled "Select size of number" with "3-digit" selected.
- A dropdown menu labeled "Round to the nearest" with "ten" selected.
- A text input field containing "814".
- A text label "rounded" between the input field and the answer field.
- A text input field containing "810".
- A button labeled "Click on cell to show or hide the answer" below the answer field.

Instructional callouts are provided for each key element:

- "Click this button to set a new random start number." points to the "NEW START NUMBER" button.
- "Select the size of the start number using this drop-down menu." points to the "3-digit" dropdown.
- "Choose what to round to using this drop-down menu." points to the "ten" dropdown.
- "You can type in a start number." points to the "814" input field.
- "Click on the box to hide or reveal the answer." points to the "Click on cell to show or hide the answer" button.

Rounding - Key questions and prompts

- What is this number rounded to the nearest? How do you know?
- Which digits are important when you round to the nearest ...?
- Which multiples of 10/100/1000 does this number lie between? Which is it closer to? How do you know?
- What other start numbers will also round to the same answer? (test suggestions by typing them in to the start box). What is the smallest/largest possible start number that would round to the same answer?
- Ask children to round the same start number to the nearest 10, 100, 1000 (or whole number, tenth, hundredth). Check suggestions by changing the right hand drop-down menu.
- Find a number that give the same answer when it is rounded to the nearest ten and when it is rounded to the nearest hundred (e.g. 295).
- Give two numbers with a difference of 10 that give different answers when rounded to the nearest 100.