Notes for Simple Number Line Applets

John Mason
Nov 2013

There are two applets: Metric Numberline and Imperial Numberline

## Possible Uses

Showing the arrow without the names and inviting participants to predict the name (decimal and-or fractional).

Dragging the arrow slowly along while showing the unreduced fraction names could prompt participants to call out the names just before they appear. Same for decimal names.

Going into negatives could be a slight surprise for students, because the names reverse direction … you always have to measure from zero.

## Common to Both

Clicking on the Precision Button increases the precision of the scales until it would be too fine to see anything, when it jumps back to the least precise scale.

Clicking on the green and red arrows changes the end value of the interval show.

Once the interval is length 1, further clicking translates the whole interval in that direction.

The end points can be moved if there is room on the screen.

The big red point can be dragged horizontally. When either decimal or fraction names are being shown, names will only appear when the arrow is close to a tick mark, and then it will jump to that tick mark.

The Fraction-View permits the fraction names to be raw or reduced.

## Imperial Numberline

Only unit, tenths and hundreds are visible and so available. O see hundredths, it is best to have an interval of at most two units.