Fraction Display Notes

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I imagine this being used in plenary so that the teacher can direct attention and accumulate conjectures before pressing buttons.

There are two modes

### Diagram to Symbol

The denominators (the number of rows or columns) can be adjusted by clicking on the arrows.

Here a single fraction is produced by clicking on one of the row or column ‘spots’ and the fraction appears in its two relevant equivalent forms.

The denominator cannot be made smaller than the largest row number selected (reading from the bottom upwards) or largest column number selected (reading from left to right).

### Symbol to Diagram

The numerators and denominators can be chosen by clicking on the arrows: fractions are always less than 1 and the denominators are no more than 15.

Clicking on the equals sign adds the fractions and displays the sum on the grid. Have deliberately omitted the equivalent fraction version of the sum because I want students to come to that for themselves.

The two fractions can be displayed separately or together; clicking the ‘=’ sign converts the display so that overlapping cells are copied to the otherwise empty cells and displayed in a different colour.