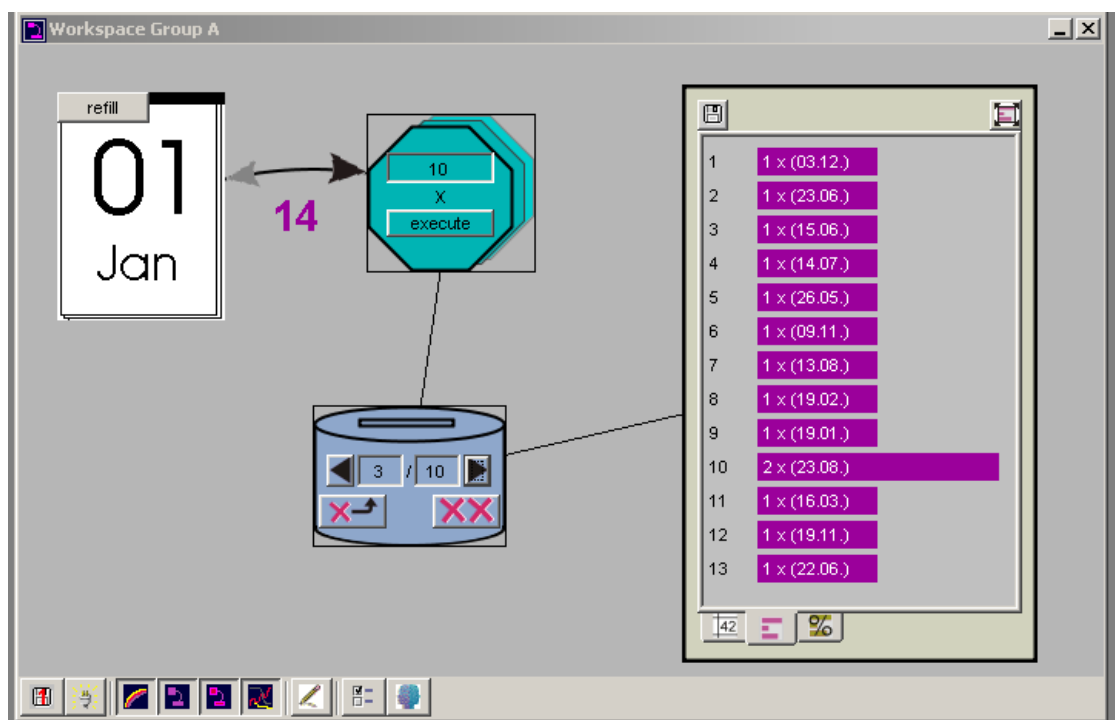


# Stochastic Experiments

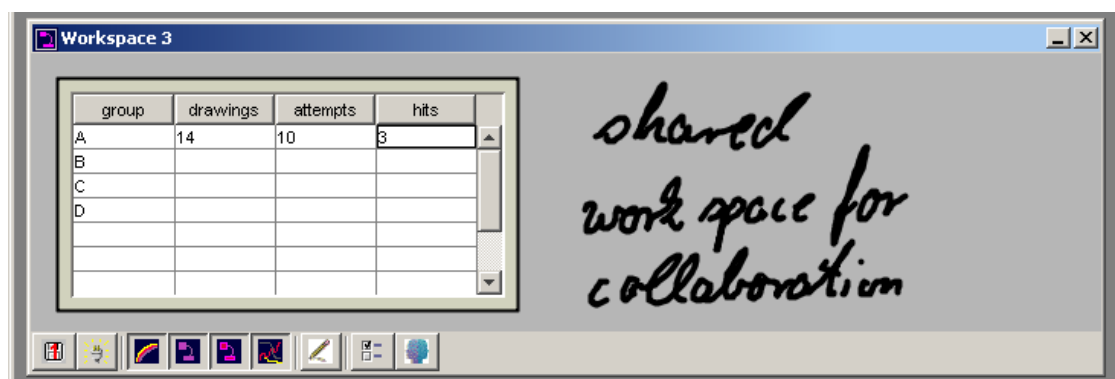
## Birthday Problem:

‘How high is the probability that the event *at least one common birthday* occurs in a group of  $n$  people?’

1. Open the file *BirthdayStart.xml*. Complete the model using a drawing object and a blue collector from the palette. Connect them using the right edges!
2. Explore the number of group members where the probability for “at least one common birthday” is 50 percent. Chose a group size, simulate experiments and analyse the results.



3. Couple and share your results with other participants using the coupled table! Alter your model, simulate and share continuously again.



- To compute the correct probability get a filter for equal events and connect it with the drawing object. Connect a display with the filter and compare the computed result with the results from your experiments.

0 [keine Urne]

display

Possible solution of steps 1 to 4:

