



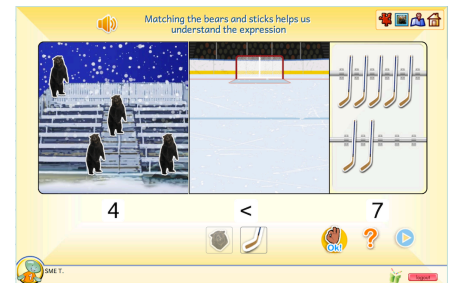
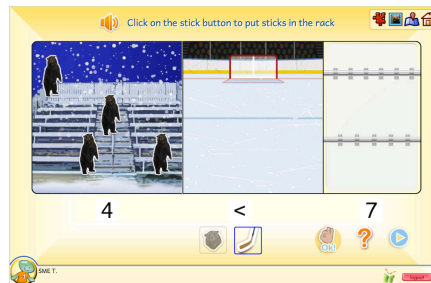
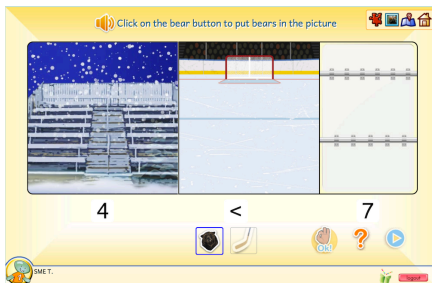
# Activity Plan

## Number Concept, Compare, Activity 4

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### Overview of the Activity

In this activity students are presented with an equation or inequality and asked to concretize the relationship by creating two sets whose cardinalities represent the numbers in the given relation.



### Description of the Activity

The student is given a relation where the first number represents how many bears there should be and the second number represents how many hockey sticks there should be, although there are at first no bears and no hockey sticks. In phase 1 the student must click on the bear icon to add the appropriate number of bears to the "set of bears", and then click on OK. If the student adds too many bears, highlights appear around the correct number of bears. If the student adds too few bears, additional "ghost" bears appear to bring up the count. In either case the student can then correct the error. In phase 2, the student performs a similar action by clicking on the hockey stick icon. In phase 3 the student simply clicks on OK to initiate an animation where bears are matched to hockey sticks on the ice rink between the two sets, demonstrating the validity of the given relation between the cardinality of the two sets.

### Principal Learning Goal(s)

Lesson goal is:

- to allow the student to practice concretizing relations between two integers.