## Functions

The student will create and use tabular, symbolic, graphical, verbal, and physical representations to analyze a given set of data for the existence of a pattern; determine the domain and range of relations; and identify the relations that are functions.

SOL A.7a
Materials: deck of function cards
Groups: up to 6 students per group
Game:
Deal the entire deck out to students. Have students discuss which cards represent functions and which do not. Have them make a pile of the cards that represent functions and a pile of the cards that do not.



| $y_{4}$ | x | f(x) |
| :---: | :---: | :---: |
|  | 0 | 36 |
|  | 2 | 38 |
|  | 9 | 45 |
|  | 20 | 56 |
|  | $\{(0,1)(1$, | 3) $(3,2)\}$ |
| $\{3,-2)(4,8)(3,2)(10,2)\}$ |  |  |
|  |  |  |



