6 (a) Some student in your class has taken some computer science courses.
(b) Every student in your class has taken at least 1 computer science course.
(c) Every student in your class is majoring in computer science.
(d) Every student in your class is either a math major or a junior.
(e) Every student in your class is a CS major.
(f) There is a student in your class who is neither a math major nor a junior.
(g) There is a student in your class who is a junior.

Many solutions possible:

given: 1 math, Fr. 12 math, soph. 15 CS, soph. 2 math, ju.
2 CS, ju. 1 CS, se.

There is a student in the class who is a junior.
Every student in the class is a CS major.
There is a student in the class who is neither a math major nor a junior.
Every student in the class is either a soph., or a CS major.
There is a major such that there is a student in the class in every year of student w/ that major.

Let $P(s, c, m)$ be the statement that student $s$ has class standing $c$ and is majoring in $m$.

For each well-defined universe of discourse, $\max = 3$.

(a) $\forall y \forall x \neg P(x, y)$
(b) $\exists x \forall y \neg P(x, y)$
(c) $\forall y (\exists x y) \lor \exists x R(x, y)$

44. (a) $F$
(b) $F$
(c) $T$
(d) $F$

Let $A = \emptyset$, $B = \emptyset$.

6) $F$ $T$ $T$ $T$ $F$

1) $0, 1, 2, 3$
80) $A = \emptyset$ or $B = \emptyset$