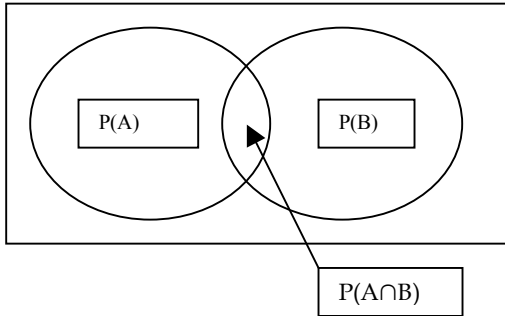


Name _____

Mat 116: Homework 1

Covers Chap 1, 2, 3

1. p. 36, Q24



$P(A) = \{\text{romantic comedies, documentaries, and anything with Jackie Chan}\}$

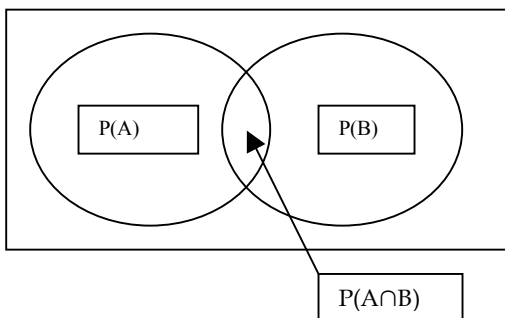
$P(B) = \{\text{romantic comedies, war movies, and anything with Jim Carey}\}$

$P(A \cap B) = \text{romantic comedies}$

2. p. 36, Q26

3. p. 37, Q34

4. p. 38, Q42



$P(A) = 48$ teachers

$P(B) = 65$ teachers

$P(A \cap B) = 15$ teach at both

How many teachers are at School A and School B?

General Counting Formula

$P(A \cup B) = P(A) + P(B) - P(A \cap B)$

$P(A \cup B) = 48 + 65 - 15 = 98$ total teachers

5. p. 61, Q36

6. p. 61, Q38

7. p. 62, Q42