













# Chapter 3 Summary

## Section Objectives

## How does it apply to you?

Section 1	Use a union of two sets to represent <i>or</i> .		Using a set diagram to visualize a statement can help you recognize what is in one set <i>or</i> in another set. (See Example 1.)
	Use an intersection of two sets to represent <i>and</i> .		Using a set diagram to visualize a statement can help you recognize what is in one set <i>and</i> in another set. (See Example 3.)
	Use the complement of a set to represent <i>not</i> .		Using a set diagram to visualize a statement can help you recognize what is not in a set. (See Examples 5 and 6.)
Section 2	Analyze statements that have the term <i>all</i> .		Using a set diagram to analyze a statement can help you recognize what is and is not being said in the statement. (See Examples 1 and 2.)
	Analyze statements that have the term <i>some</i> or <i>many</i> .		Using a set diagram to analyze a statement can help you make other statements. (See Examples 3 and 4.)
	Analyze negations of statements.		Using a set diagram to analyze a statement can help you negate the statement. (See Examples 5 and 6.)
Section 3	Use deductive reasoning with syllogisms.		Using a set diagram to visualize why syllogisms are valid can help you draw other conclusions. (See Examples 1 and 2.)
	Know how a deductive reasoning system is created.		Logical systems help you understand how different branches of mathematics were formed. (See Examples 3 and 4.)
	Use inductive reasoning.		You need to be able to make logical conclusions based on repeated patterns. (See Examples 5 and 6.)
Section 4	Recognize deductive fallacies.		You need to be able to distinguish valid logic from invalid logic. (See Examples 1 and 2.)
	Use set diagrams to detect fallacies.		Using a set diagram can help you determine whether statements are valid or invalid. (See Examples 3 and 4.)
	Recognize fallacies in advertisements.		You need to be able to distinguish between valid and invalid statements in advertising. (See Examples 5 and 6.)