NAME	
1) Continue the pattern for five me	ore items in the list:
aaa, aab, aba,	
· · · · · · · · · · · · · · · · · · ·	whether the statement is true or false. If it is true, g it is false, give a single counterexample:
2) If the price of an air conditioner the same as the original price.	r is raised by 17% and then lowered by 17%, the price v
	an Rachel, and Tanna got a lower grade than Rachel, th
i anna not a lower ntene then lar	noo.
Tanna got a lower grade than Jar	
ranna got a lower grade than Jar	
Tanna got a lower grade than Jar	
ranna got a lower grade than Jar	
	nces of operations give the same result:

5) Explain the difference between the symbols \subseteq and \subset	5)	Explain	the dif	ference	between	the	symbols	\subset	and	\subset	
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7) Decide whether the sets are equal:

{b is a positive integer}

{k is a counting number}

8) List all of the three-element subsets of the set {a, b, c, d}.

9) Let U = {all sodas}; A = {all diet sodas}; B = {all cola sodas}; C = {all sodas in cans}; and D = {all caffeine-free sodas}. Describe A \cap B \cap D in words.

10)	Create a	Venn	diagram	to represent	the set A' U	B'
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list the elements in A U (B \cap C).

12) Using the same sets as Question $\mathbf{1}$, list the elements in $\mathbf{C} - \mathbf{A}'$.

13) If A = $\{1,2,3,4,5,6,7\}$ and C = $\{1,2,3,...\}$, what is n(A-C)?:

14) A survey of 240 families showed that:

91 had a dog;

70 had a cat;

31 had a dog and a cat;

91 had neither a cat nor a dog nor a parakeet;

7 had a cat, a dog and a parakeet.

How many families had a parakeet only?

15) If a set consists of 6 elements, how many subsets does it have?

BONUS:

A school has a Spanish club, a French club and a drama club, each of which has 25 members. The Spanish and drama club have 6 members in common. The drama and French club have 4 members in common. The Spanish and French club have no members in common. Draw a picture to illustrate the situation.