Be sure your textbook is in class with you.

On last night's HW

Give yourself a score and check it with the purple solutions.

Target

Analyze
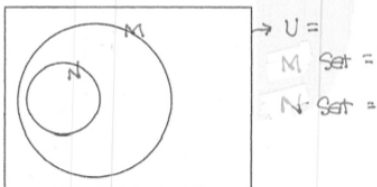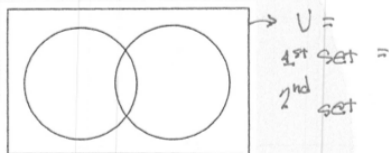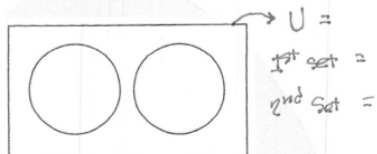Venn Diagrams

That cast is super trendy.

Posted on November 28, 2006 by Jessica Hagy

High
Heels

Ice &
Snow

Crutches

Pick up
the
classwork

Venn Diagrams

Consider and suggest what the sets could be in th
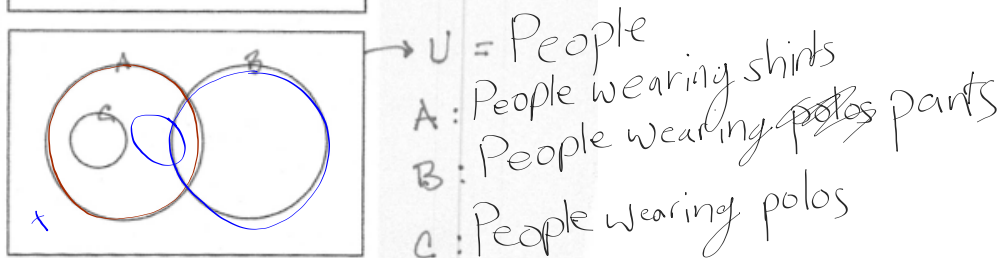reference also to what the universal set might be.

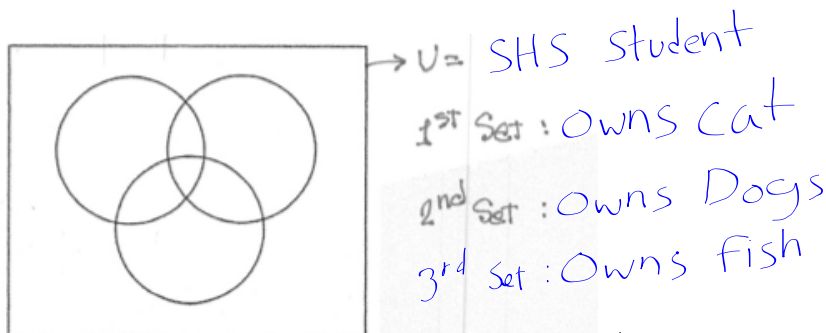U =
1st set =
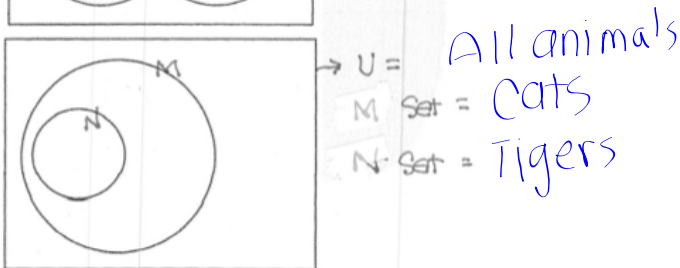2nd set =

U =
1st set =
2nd set

U =
M set =
N set =

As a group, create sets that match the Venn Diagram

do first side only

Venn Diagrams

Consider and suggest what the sets could be in th
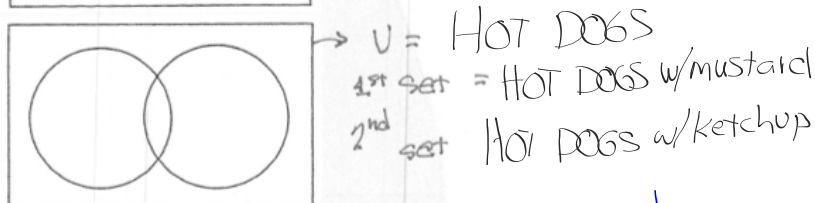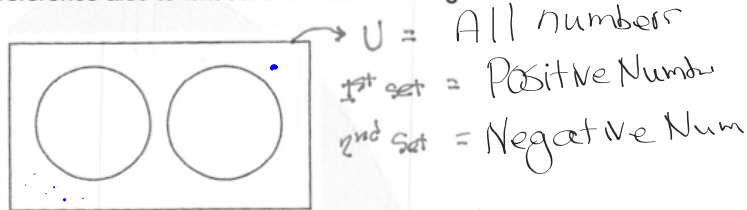reference also to what the universal set might be.

→ U = All numbers
1st set = Positive Number
2nd Set = Negative Num

→ U = HOT DOGS
1st Set = HOT DOGS w/mustard
2nd set HOT DOGS w/ketchup

→ U = All animals
M Set = Cats
N Set = Tigers

→ U = SHS Student
1st Set : Owns Cat
2nd Set : Owns Dogs
3rd Set : Owns Fish

→ U = People
A : People wearing shirts
    People wearing polos pants
B : People wearing polos
C : People wearing polos

read about

Venn Diagrams, etc

pp. 73-74

Do #2 on page 75
(on the bottom of your first sheet)

a) $A = \{1,3,5,7,9\}$

$B = \{2,3,5,7\}$

b) $A \cap B = \{3,5,7\}$

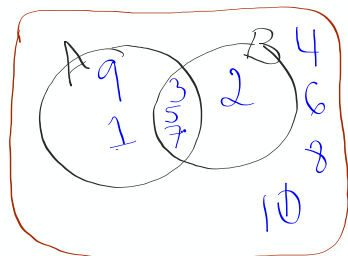$A \cup B = \{1,2,3,5,7,9\}$

(c) $\{1,2,3,4\ldots\ldots9,10\}$

4   10

1
3
9   5   2
7

6   8
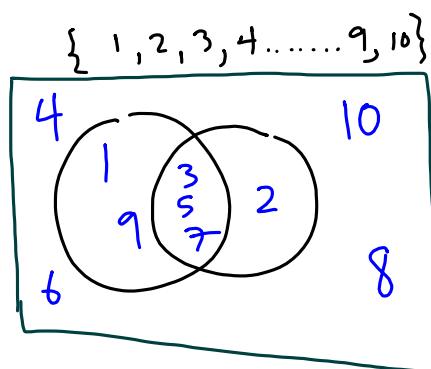
$U = \{x \mid x \in \mathbb{Z}, 1 \leq x \leq 10\}$

$A = \{\text{odd \#'s} < 10\}$ $B = \{\text{Primes} < 10\}$
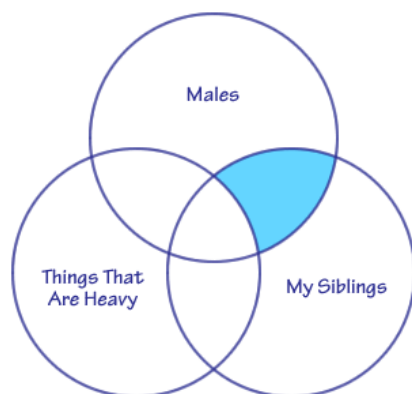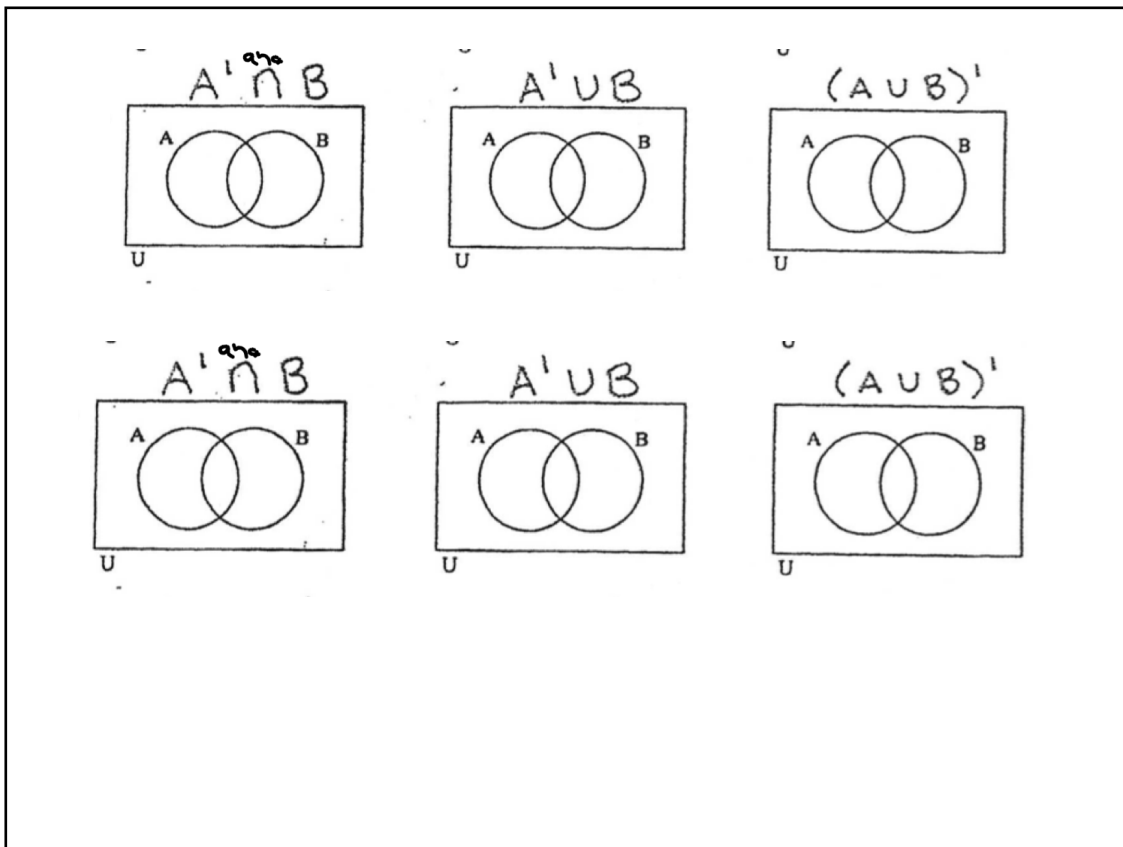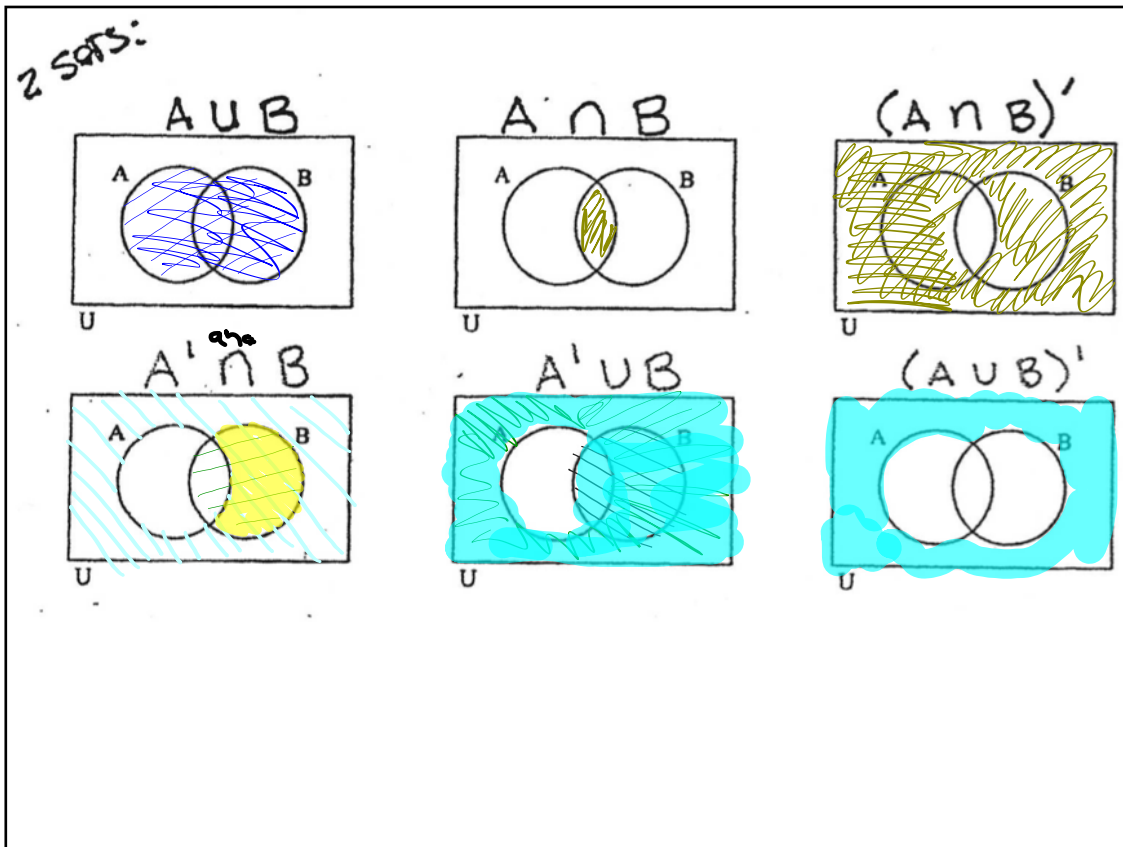
a) $A = \{1, 3, 5, 7, 9\}$
    $B = \{2, 3, 5, 7\}$

b) $A \cap B = \{3, 5, 7\}$
    $A \cup B = \{1, 2, 3, 5, 7, 9\}$

c)

Shading of
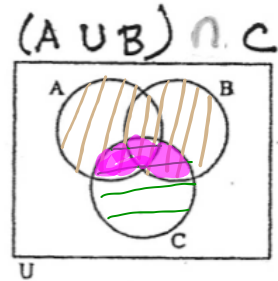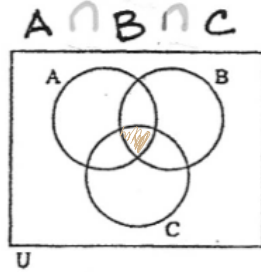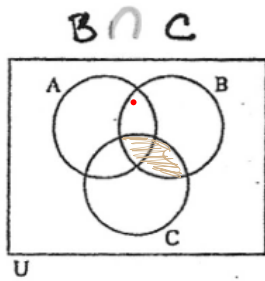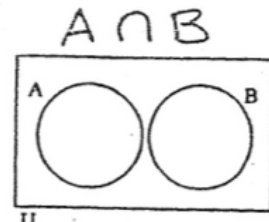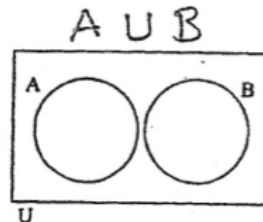# Venn Diagrams

Males

Things That
Are Heavy   My Siblings

do #3 on the
hand out

2 Sets:

A ∪ B

A ∩ B

(A ∩ B)'

A' ∩ B

A' ∪ B

(A ∪ B)'

A' ∩ B

A' ∪ B

(A ∪ B)'

A' ∩ B

A' ∪ B

(A ∪ B)'

3 SETS:

$B \cap C$

$A \cap B \cap C$

$(A \cup B) \cap C$

2 D SETS

A'

$A \cup B$

$A \cap B$

SUBSETS

A'

U, A, B

A ∩ B

U, A, B

A' U B

U, A, B

parental guidance
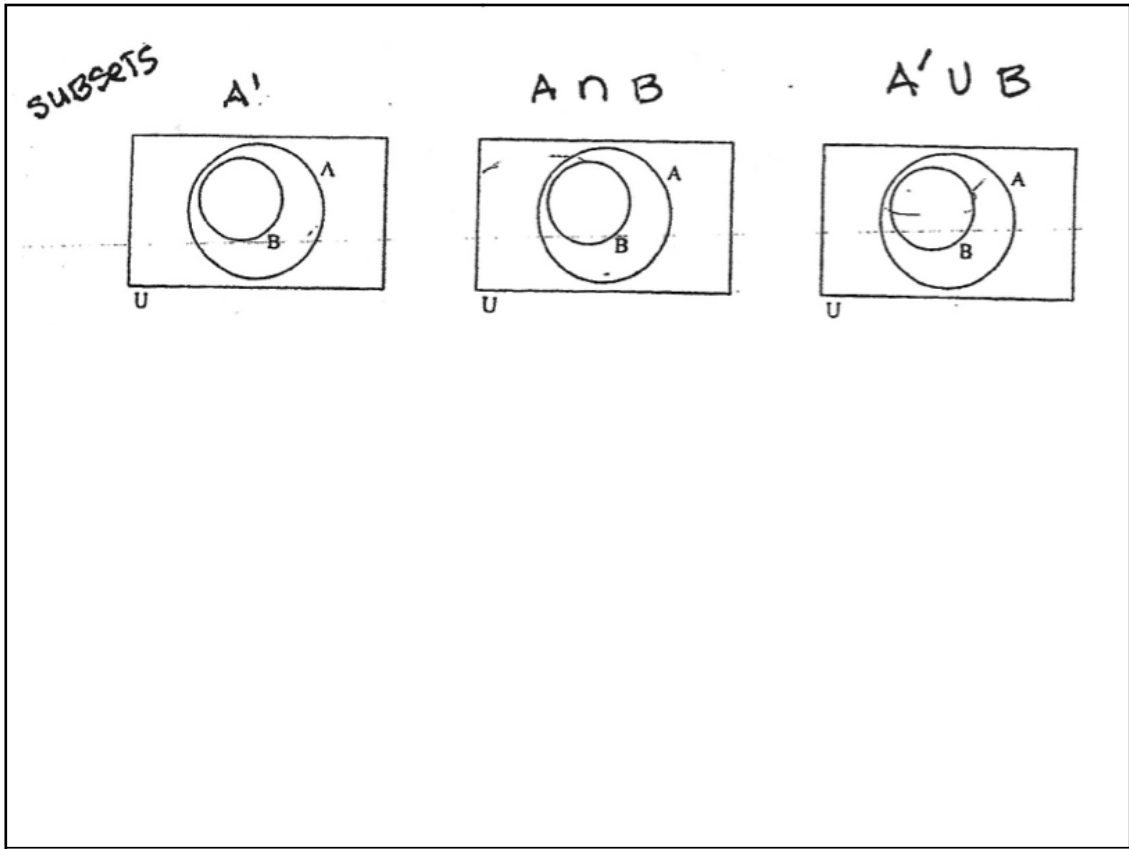
terror

→ Scary movies
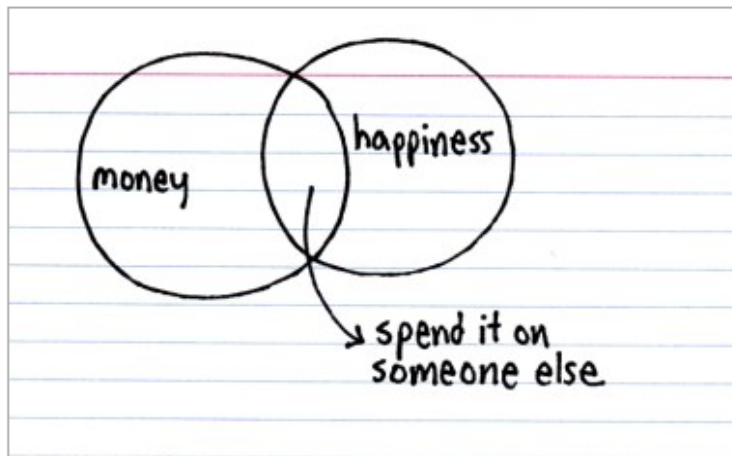-or-
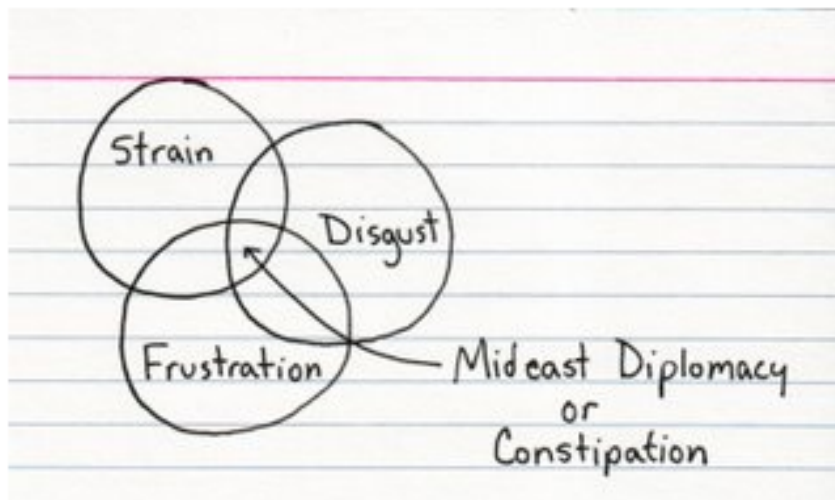Your family starts talking politics
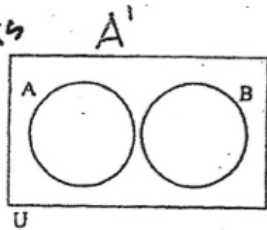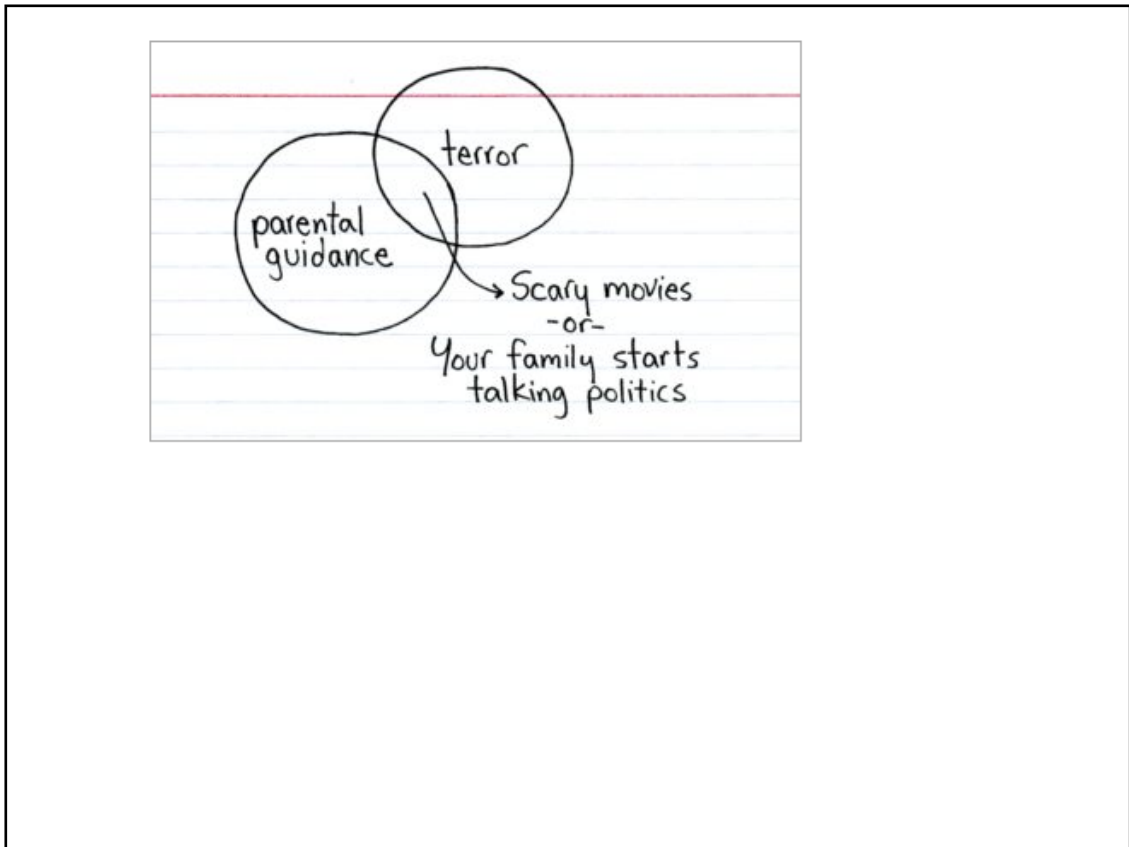
Behavioral economics.

Posted on February 25, 2016 by Jessica Hagy

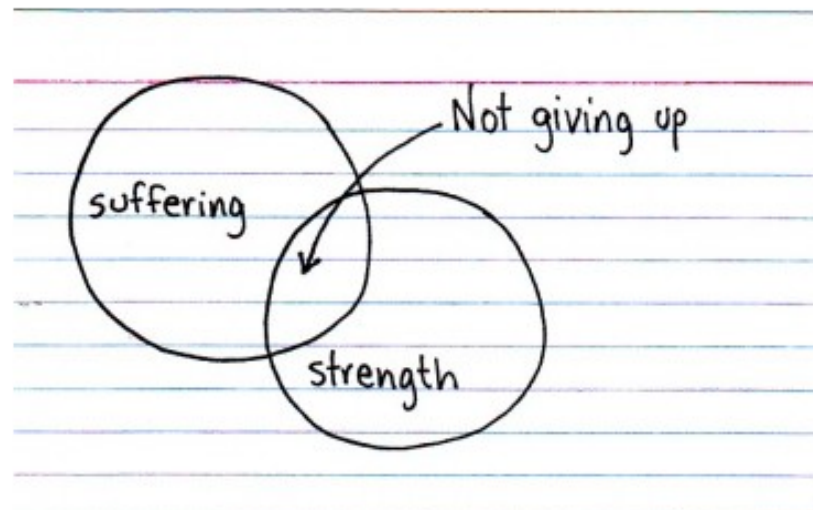**Something has to give.**

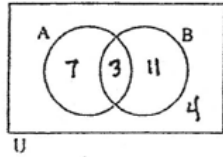Posted on August 31, 2006 by Jessica Hagy

How to win.

Posted on May 20, 2011 by Jessica Hagy

suffering *Not giving up* *strength*

Numbers in

Venn Diagrams

handout : page 4

4. Numbers in Regions

If 3 means that there are 3 elements in the set A ∩ B, how many elements are there in:

a) A $\quad 7+3 = 10$

b) B' $\quad 7+4 = 11$

c) A ∪ B $\quad 7+3+11 = 21$

d) A but not B $\quad 7$

e) B, but not A $\quad 11$

f) neither A nor B $\quad 4$

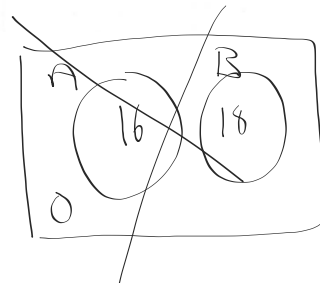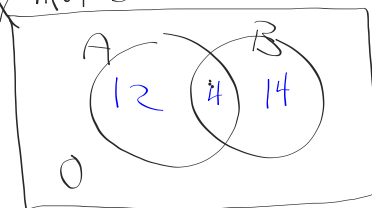5. Given $n(U) = 30 \quad n(A) = 16 \quad n(B) = 18$

$$n\left[(A \cup B)'\right] = 0$$

$$n(A \cap B) = 4$$

$30 = 16 + 18 - x$

$30 = 34 - x$

$x = 4$

Important
Union Property

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

Given $n(u) = 30$ $n(A) = 14$ $n(B) = 17$
$n(A \cap B) = 6$

$n(u) = 30$

find $n(A \cup B) = 8 + 6 + 11 = \boxed{25}$
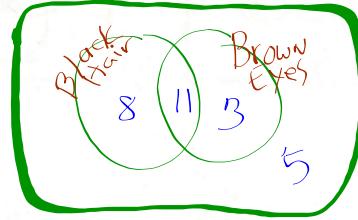
find $n(A, \text{ but not } B) = 8$

c) A tennis team has 27 members, 19 have black hair, 14 have brown eyes and 11 have both black and brown eyes.
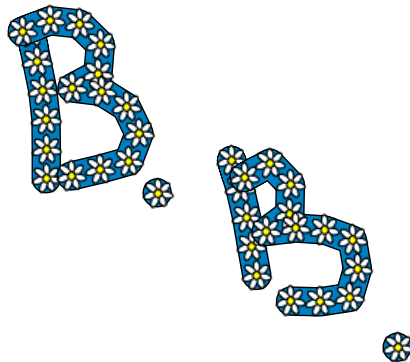
a) Create a Venn Diagram with this information.

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

$\bigcirc = \bigcirc + \bigcirc - \oslash$

$= 19 + 14 - 11$

Black Hair   Brown Eyes

8 11 3

5

b) Find the number of members with:

black hair or brown eyes   22

black hair, but not brown eyes.   8

see
Test

Assignment:

is a handout called "Assignment 3"

--you have 2 days to complete it.