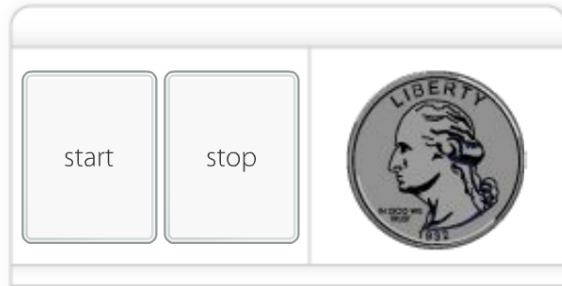


Warm Up: Alg 2

9/3

Create the sample space of flipping a coin and spinning this spinner.



Feb 27-7:39 AM

Warm Up: Alg 2

9/3

How many possible outcomes are there if you flip a coin?

How many possible outcomes if you spin the spinner?

How many if you do both?

Feb 27-7:39 AM

Warm Up: Alg 2

9/3

Think about rolling a pair of dice.

How many for one die?

How many for the other?

How many where there total?

Feb 27-7:39 AM

Warm Up: Alg 2

9/3

18. Reggie knows how to make 5 different entrees, 4 different side dishes, and 6 different desserts. How many distinct complete meals, each consisting of an entrée, a side dish, and a dessert, can Reggie make?

F. 16

G. 26

H. 72

J. 120

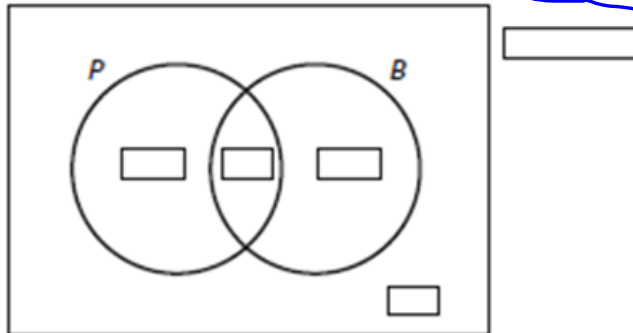
K. 144

Feb 27-7:39 AM

Solutions to P.W.:

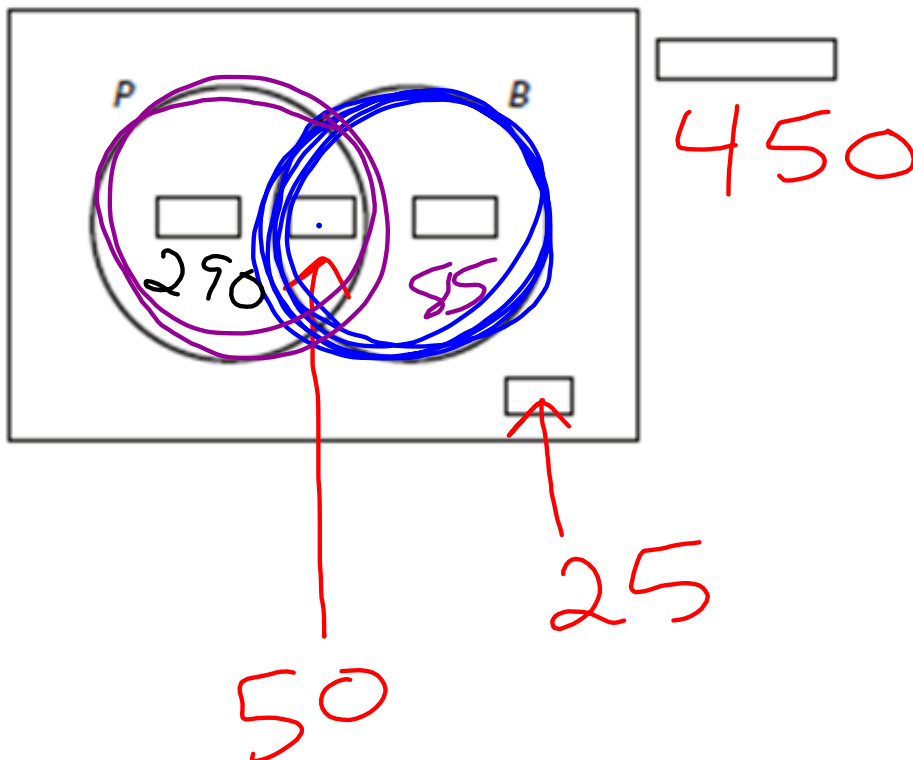
Complete the Venn diagram so that it represents the following information:

- The number of students in a school is 450.
- The number of students who have a phone or who have a bicycle is 425.
- The number of students who have both a phone and a bicycle is 50.
- The number of students who have a bicycle is 135.



Dec 31-10:07 PM

- The number of students who have a bicycle is 135.



Dec 31-10:07 PM

W.A.L.T.:

Connect our understanding of Venn Diagrams to probability problems.

W.A.S.I.:

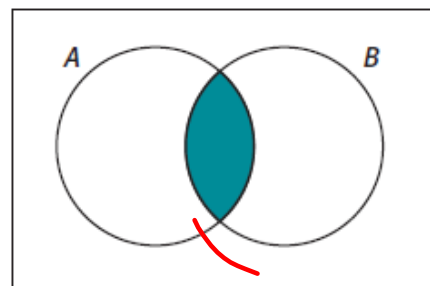
We can use the venn diagram to draw the sample space and translate the pictures into probabilities.

Mar 7-9:45 AM

Notes!!! Venn Diagrams and Words

This region is called the *intersection* of the sets A and B , and can be written as $A \cap B$ (read as "A intersect B").

This is where you read A and B in the venn diagram

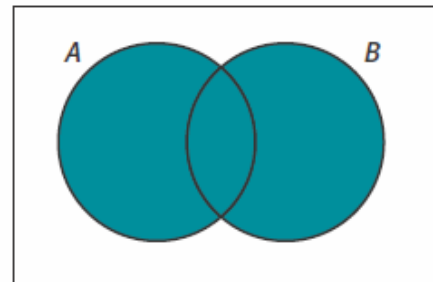


Dec 31-10:01 PM

Notes!!! Venn Diagrams and Words

This region is called the **union** of the sets A and B , and can be written as $A \cup B$ (read as "A union B").

This is where you read A or B in the venn diagram



Dec 31-10:01 PM

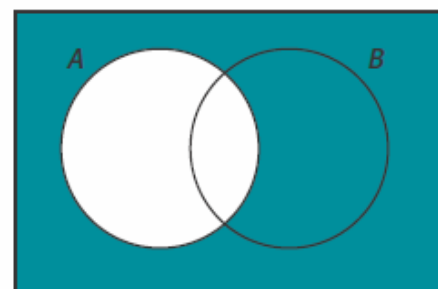
Notes!!! Venn Diagrams and Words

This region is the **complement** of the set A , and can be written as A^c (read as "A complement").

This is where you read not A in the venn diagram.

What would not B look like?

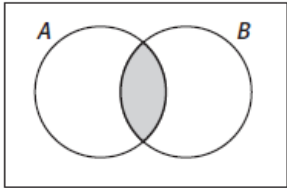
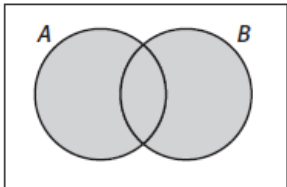
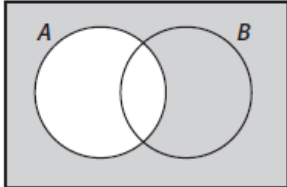
How would you write that?



Dec 31-10:01 PM

Notes!!! Venn Diagrams and Notation

These ideas are summarized in the table below.

Shading	In Words	In Probability Notation
	The probability that a randomly selected student takes an art class <u>and</u> plays basketball	$P(A \cap B)$
	The probability that a randomly selected student takes an art class <u>or</u> plays basketball	$P(A \cup B)$
	The probability that a randomly selected student does <u>not</u> take an art class	$P(A^c)$

Pay attention to how each one is written.

Dec 31-10:01 PM

In Class Work:

Worksheet #1 - 3

Mar 7-1:33 PM

Today's Activities:

-

P.W. for tonight:

- Worksheet #1 - 3

Day 4

Dec 31-9:59 PM