Welcome to Math 304

- Please fill out the Information Survey & complete the Chapter 9 Pre-test
- Go over Syllabus
- Create Vocabulary Notebook for Chapters 9 & 10
- Probability Notes
- Laboratory Activity # 1 on p. 533 & Paper-Scissors-Rock Lab
- Assignment for Thursday

Informal Geometry
Math 304
Fall 2012 Syllabus

Office hrs T, R 8:30 – 10:20 & M-R 4:00 – 5:00
with additional times available by appointment

Required Text & Supplement:
Text: Problem Solving Approach to Mathematics for Elementary School Teachers, 10/E
Rick Billstein, Shlomo Libeskind, Johnny W. Lott & Math 304 Lab Packet

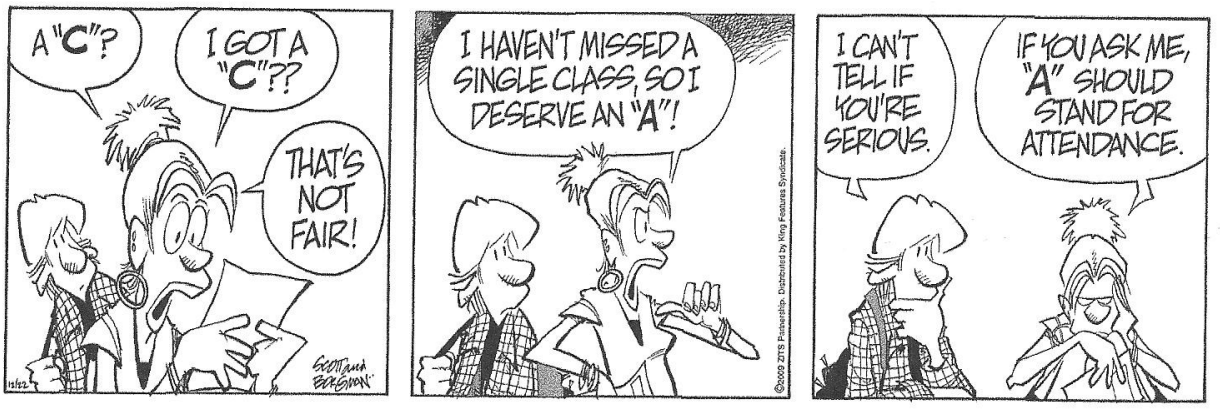
Required Supplies: three ring binder, colored pencils, protractor *with both cm and inches*, compass, & scientific calculator

Evaluation:

1. Ticket in/ticket out 3 pts each total ≈ (approximately) 60 pts.
2. Quizzes worth 15-20 pts. each total ≈ 100 pts
3. Select labs, handouts, and vocabulary notebook 5 -10 pts. each total ≈ 100 pts
4. Bonus Impact Cube Project 15 pts
5. Measurement project 80 pts.
6. Three unit tests worth 100 pts. each
7. Comprehensive Final Dec. 18 at 3:00for 12:00 class and Dec. 14th at Noon for 1:30 class - 200 pts.

Grading Scale:

100-98 A+; 97-93 A; 92-90 A-
89-88 B+; 87-83 B; 82-80 B-
79-78 C+; 77-73 C; 72-70 C-
69-68 D+; 67-63 D; 62-60 D-
59%- F

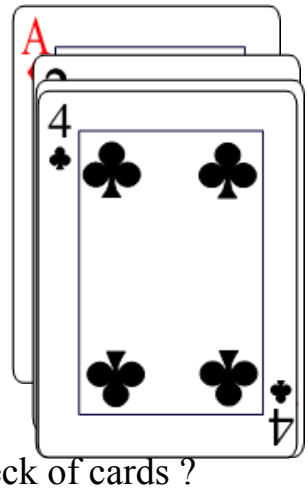


Create a Vocabulary Notebook for Chapters 9 & 10

Materials:
Instruction Sheet (To be returned)
Cover sheet and 4 blank sheets of paper
Ruler
Scissors

Probability Notes Section 9-1

8/28/2012



The Sample Space for a standard deck of cards includes 52 cards.

4 suits-

13 ranks-

Among the ranks there are __ face cards that include J, Q, K

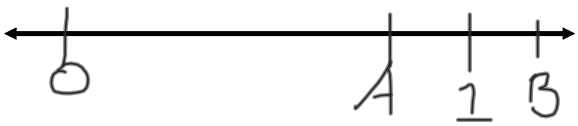
2 colors-

1) What is the probability of selecting a 2 from a standard deck of cards ?

2) Is the probability of selecting the following equally likely {black card, Ace}

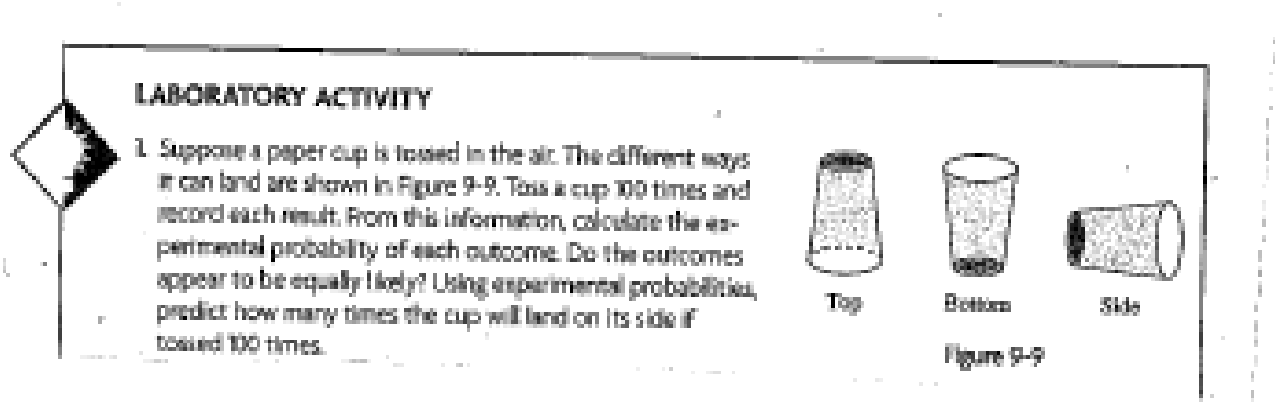
3) If $P(B) = \frac{26}{52}$, $P(A) = \frac{4}{52}$, what is $P(B \cup A)$?

4) Describe an event, if possible, that has the approximate probability marked by the letter on the probability line.



Math 304

In your small group complete experiment 1 described on p. 533 Laboratory Activity 1 with the cup toss.



LABORATORY ACTIVITY

1. Suppose a paper cup is tossed in the air. The different ways it can land are shown in Figure 9-9. Toss a cup 100 times and record each result. From this information, calculate the experimental probability of each outcome. Do the outcomes appear to be equally likely? Using experimental probabilities, predict how many times the cup will land on its side if tossed 100 times.

Figure 9-9

Set up a table to make your predictions and record your results

	Top	Bottom	Side
Predictions	%	%	%
Results			

Activity 7: Paper-Scissors-Rock

		Your Partner		
		Paper	Scissors	Rock
You	Paper			
	Scissors			
	Rock			

Math 304
Assignment Due Thursday 8/30

Read pp. 515-528, complete the Vocabulary in Section 9.1

Try This 9-1 on p. 520,
9.1A #1, 2, 5, 12, 17 on pp. 528-530,
Connections 9-1 # 1, 6, 7, 14,
& both TIMSS Questions on pp. 532-533

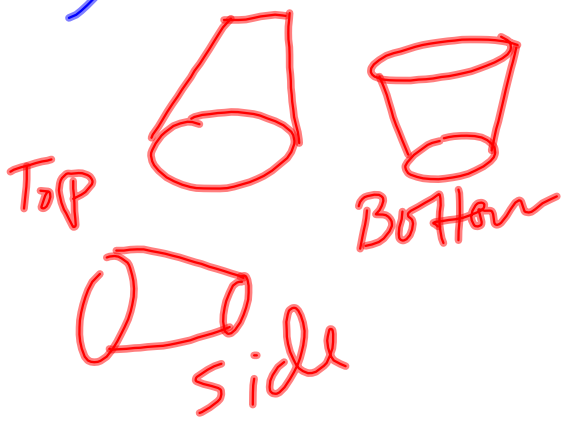
Finish Paper-Scissors-Rock Lab

Vocabulary for Section 9-1
Place the term, definition, and example in your notebook for each of the following:

experiment - an activity whose results can be observed & recorded.
ex. tossing a cup 100 times & recording which way it landed.

sample space p. 533

tree diagram



event

experimentally/empirically

theoretical probabilities

equally likely

uniform sample space

impossible event

certain event

mutually exclusive

complementary events

Summary of Probability Properties