

PENCIL/PAPER HOMEWORK LIST & TEST/EXAM DATES

PROFESSOR NC RESSLER

SPRING SEMESTER 2012

LIBERAL ARTS & SCIENCES: QUANTITATIVE LITERACY

MATHEMATICS 125

(pencil/paper homework is found within the e-book or the hard copy text book.)

Blitzer: Thinking Mathematically 5th edition

Prentice Hall/ Pearson Education

The course is structured with closing dates for each test; all tests and exams may be taken early. All tests and exams are available from DAY # ONE of the Spring Semester 2012.

It is possible to complete the course early, should that be the choice of any individual participant.

Homework will be “turned-in” to the Division 2 Office {second floor: top of the Main Stairway} at the Des Plaines Campus OR the Faculty Support Office {second floor: top of the Stairs (left at top until the corridor ends) above the College Security Office} at the Skokie Campus *before* or *at the time* of the Mid Semester Exam (for the first one half of the semester) and *before* (May 4th, 2012) the Final Exam (for the second one half of the semester). Please be advised a courier will deliver the pencil/paper homework packet to my office at the Des Plaines Campus **the day AFTER you deposit it with the secretary at the Skokie Campus – IF the homework packet arrives AFTER grades have been submitted there will be no credit received for your late homework packet –PLEASE make certain that your hard work is presented with time for travel by courier to the Des Plaines Campus.**

Pencil/Paper Homework can be federally mailed to my Des Plaines Office.

Professor N Ressler

Division TWO; Department of Mathematics

Oakton Community College

1600 East Golf Road

Des Plaines, Illinois 60016

Completed Homework will contribute a full 10 points toward the transcript grade when it includes the steps supporting the solution; it is unnecessary to write the question.

The *Mid Semester* and the *Final Exams* will contribute **20%** each towards the overall grade; the *average of the computer tests* “A” & “B” will count as **50%** of the overall grade.

If you encounter what seems especially difficult, continue and work as far as you can with the problem, *do not stop* at a problem that is overly challenging.

Needless to say you must always try to do all of the problems.

THE COMPUTER TESTS WILL CLOSE AT 10:59 p.m. WHETHER OR NOT YOU ARE INVOLVED IN TAKING THE TEST.

Plan ahead for *stress free tests and exams*, by not waiting until the last day!
Each Test and each Exam may be taken early ... but ... not late!

ALL of the Tests 'A' and 'B' and the On Campus Exams may be taken earlier; it is possible to complete the course ahead of schedule. Tests and Exams will not be available after the closing dates. ON THE ANNOUNCEMENT PAGE *within your computer program* you will find an additional list of the test closing (deadline) dates.

Any MAKE-UP (missed) Tests and Exams are scored one grade lower;
"A" will become a "B";
"B" will become a "C"
"C" will become a "D"

FIRST ONE HALF of the SEMESTER

All Homework Sections can be found on the pages provided at ASSESSMENT usually Part "A" only; IF *all of the sections of the question are NOT included only the letter section of what is assigned will be included immediately after the question number; no letter indicates all of that question should be worked.* IF the Homework is from the *CHAPTER REVIEW* it will be listed as such.

PROBLEM SOLVING and CRITICAL THINKING

1 Inductive and Deductive Reasoning

pg. 9 (3, 4, 6, 8, 9, 13, 21, 35, 39, 41, 52, 62)

1.2 Estimation, Graphs and Mathematical Models

pg. 22 (1-8 {all}, 27, 35, 39)

1.3 Problem Solving

pg. 33 (1, 5, 8, 10, 12, 21, 35, 47{a}, 62)

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 1/2 Tests: MONDAY, JANUARY 30th 2012

Chapter Tests **WILL CLOSE** at 10:59 Chicago Time *whether or not you are working the test.* PREPARE for the Chapter Tests by practicing the Sample (practice) Tests. These *sample tests are similar and more challenging than the actual Chapter Tests.*

ALL tests may be taken earlier than the date indicated on this Homework List.

Remember *by taking the Chapter Tests at the last minute you are not allowing ample time for the following chapter course content! Dates are provided to help participants to remain on schedule. Anyone may complete the course early if they choose!!*

SET THEORY

2.1 Basic Set Concepts

pg. 53 (2, 4, 6, 18, 21, 23, 25, 33, 35, 41, 47, 51, 55, 67, 69, 73, 91, 93, 111, 112, 113)

2.2 Subsets

pg. 62 (30, 31, 33, 34, 55, 57, 59, 80, 96, 98)

2.3 Venn Diagrams and Set Operations

pg. (17, 19, 21, 22, 23, 27, 34, 36, 85, 86, 91, 93, 107, 139, 140, 157, 160)

2.4 Set Operations

pg. 83 (25, 49)

2.5 Survey Problems

pg. 94 (1-8 {all}, 33, 34, 35, 39, 45)

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 1/2 Tests: MONDAY, JANUARY 30th 2012

LOGIC

3.1 Statements, Negations and Quantified Statements

pg. 109 (1, 9, 15, 17, 19, 23, 30, 33, 40, 41, 43, 44, 47, 48, 54, 55, 58, 67, 70, 72)

3.2 Compound Statements and Connectives

pg. 120 (2, 6, 7, 10, 11, 12, 13, 15, 16, 19, 20, 21, 22, 27, 28, 30, 31, 33, 36, 39, 49, 52, 55, 58, 59, 60, 62, 63, 64, 71, 74, 75, 77, 79, 81, 82, 83, 84)

3.3 Truth Tables, Negation, Conjunction and Disjunction

pg. 135 (1, 3, 5, 7, 9, 11, 13, 17, 18, 22, 23, 25, 27, 29, 31, 33, 46, 53, 55, 57, 59, 65, 6, 69)

3.4 Truth Tables and the Conditional and the Bi-conditional

pg. 146 (1, 3, 5, 9, 11, 19, 21, 33, 35, 41, 83, 86)

3.5 Equivalent Statements and Variations of Conditional Statements

pg. 155 (7, 9, 15, 17, 19, 36, 41, 42, 43, 44)

3.6 Negations of Conditional Statements and De Morgan's Laws

pg. 162 (5, 6, 14, 17, 21, 39, 40, 55)

3.7 Arguments and Truth Tables

pg. 173 (1, 3, 16, 17)

3.8 Arguments and Euler Diagrams

Pg. 185 (1, 5, 7, 10, 16, 20, 23, 24)

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 3 Tests: WEDNESDAY, FEBRUARY 15th 2012

ALGEBRA, GRAPHS, FUNCTIONS and LINEAR SYSTEMS

7.1 Graphing and Functions

pg. 379 (21, 23, 31, 33, 41, 56, 57, 58, 60, 61)

7.2 Linear Functions and Their Graphs

pg. 391 (42, 45, 47, 61, 62)

7.3 Systems of Linear Equations in Two Variables

pg. 405 (1, 3, 13, 17, 25, 30, 51, 52, 55{a, b}, 57{a, b, c})

7.4 Linear Inequalities in Two

pg. 414 (1, 6, 11, 17)

7.5 Linear Programming

pg. 420 (1, 3, 5{a, b, c}, 13, 18)

7.6 (skip)

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 7 Tests: FRIDAY, MARCH 2nd 2012

Remember:

Submit Pencil/Paper Homework for the first one half of the Semester!

MID-SEMESTER EXAM (computer)

On Campus @ Des Plaines or Skokie

(out of area participants, please contact Robin Nash: RNASH@OAKTON.EDU)

The Mid Semester Exam tests on material covered in the first one half of the course!

MID TERM EXAM COMPLETION Prior To:

12:00 NOON, FRIDAY, MARCH 9th

On Campus, at the Des Plaines Testing Center or the Skokie Testing Center

Remember to bring a photo ID, a calculator and a note card (both sides)

The format of the exam is the same as the computer tests.

Last day to withdraw with "W" from 16 week courses: March 11th 2012

SECOND ONE HALF of the SEMESTER

CONSUMER MATHEMATICS and FINANCIAL MANAGEMENT

8.1 Percent, Sales Tax and Income Tax

pg. 452 (1, 3, 7, 11, 17, 24, 27, 30, 33, 30, 41, 43, 45, 47{a, b}, 49{a, b}, 55)

8.2 Simple Interest

pg. 458 (1, 4, 5, 7, 9, 13, 15, 17, 20, 21, 24, 26, 27{a, b, c}, 31, 32, 33, 34, 35)

8.3 Compound Interest

pg. 466 ({a, b}:1, 3, 5, 7, 9; 13, 23, 224, 25, 26, 29, 33)

8.4 Annuities, Stocks and Bonds

pg. 478 ({a, b}:1, 5, 7, 9; {a, b}:11, 17; 27, 34)

8.5 Installment Loans, Amortization and Credit Cards

pg. 491 (1 {a, b, c, d, e}; 7, 10{a, b}, 15{a, b}, 18{a, b, c})

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 8 Tests: SATURDAY, MARCH 31st 2012

GEOMETRY

10.1 Points, Lines, Planes and Angles

pg.537 (11, 16, 27, 29, 47, 50)

10.2 Triangles

pg. 546 (1, 5, 23, 27)

10.3 Polygons, Perimeter and Tessellations

pg. 555 (1-10{all}; 23, 31)

10.4 Area and Circumference

pg. 564 (1, 5, 9, 15, 17, 37, 48)

10.5 Volume

pg. 573 (2, 4, 27, 31)

10.6 Right Triangle Trigonometry

pg. 580 (1, 9, 35)

10.7 Beyond Euclidean Geometry (skip)

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 10 Tests: TUESDAY, APRIL 10th 2012

COUNTING METHODS and PROBABILITY THEORY

11.1 Fundamental Counting Principle

pg. 606 (1, 3, 6, 15, 18)

11.2 Permutations

pg. 613 (1, 3, 7, 13, 22, 25, 28, 33, 37, 39, 41, 43)

11.3 Combinations

pg. 619 (1, 2, 5, 9, 15, 19, 21, 23)

11.4 Fundamentals of Probability

pg. 627 (1, 3, 4, 7, 9, 11, 13, 16, 19, 21, 27, 29, 33, 35, 37, 41, 45, 47, 49, 50, 51, 67, 68, 69, 73)

11.5 Counting Methods and Probability Theory

pg. 634 (2{a, b, c}, 3{a, b, c, d}, 7)

11.6 Events Involving Not and Or; Odds

pg. 644 (1, 5, 6, 11, 13, 15, 79, 81, 83, 85)

11.7 Events Involving And; Conditional Probability

pg. 656 (1, 6, 9, 15, 21, 26{a, b, c, d}, 31, 57, 58, 59, 60)

11.8 Expected Value

pg. 664 (1, 2{a, b, c}, 3)

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 11/12 Tests: FRIDAY, MAY 4th 2012

STATISTICS

12.1 Sampling, Frequency Distributions and Graphs

pg. 683(1{a, b, c, d}, 18)

12.2 Measures of Central Tendency

pg. 696 (1, 9, 13, 25, 58, 59, 60, 61)

12.3 Measures of Dispersion

pg. 705 (1, 17, 20)

12.4 The Normal Distribution

pg. 717 (1, 5, 9, 11, 13, 23, 27, 31, 33, 35, 39, 43, 48, 49, 51, 55, 59, 61, 63)

12.5 Problem Solving with the Normal Distribution

pg. 724 (1, 3, 5, 7, 9, 13, 15, 17, 21, 23, 27, 30, 31, 33, 36, 44, 45)

12.6 Scatter Plots, Correlation and Regression Lines

Pg. (1, 3, 11, 27, 28, 31, 33, 37)

Chapter Summary/Review

your choice **OR** work and practice 'on line'

CHAPTER 11/12 Tests: FRIDAY, MAY 4th 2012

FINAL EXAM (on the computer) On Campus @ Des Plaines Testing Center or
Skokie Testing Center

FINAL EXAM COMPLETION Prior To 12:00 NOON:

FRIDAY MAY 11th 2012

Remember to bring a photo ID, a calculator and a note card (both sides)

Remember:

**Submit Pencil/Paper Homework for the second one half of the Semester with time
for me to grade it – IT MUST BE ON MY Des Plaines desk on MAY 4th 2012!**

Personally drop it off or by Federal Mail:

Prof N Ressler; Division TWO

Oakton Community College

1600 East Golf Road

Des Plaines, Illinois 60016

The Final Exam tests only on material covered in the second one half of the course!

The format of the exam is the same as the computer tests.

REMEMBER:

In order for me to score your Pencil/Paper Homework, Compute your Transcript grade --
- **and submit your grades** to the registrar you must have *course completion earlier or at
least according to the schedule above!*