

Math 1030 Schedule Spring 2006

Date	Lecture Topic	Assignment Due
Feb 13	9.1	
Feb 14	9.2	
Feb 15	Help Session (optional)	
Feb 16	9.3	<p>9.1:</p> <p>9.1: 2,4,5,10,13,17,23,24,27,29,32,35,42,45,48 A: How many miles is a 5K fun run? 9.1: 49,52,57,58,60,61,65,67,69,70,73-75,77,81,83 B: Convert the width of a hydrogen atom, 1.0586×10^{-10} m, to nanometers. http://en.wikipedia.org/wiki/Atom C: One sea league is approximately 3.45 miles. Convert 20,000 leagues to miles. http://www.convert-me.com/en/convert/units/length/length_marineleague.en.html D: One light-year is 9.5×10^{12} km. The Milky Way is approximately 150,000 light-years across. How many miles across is the Milky Way? http://starchild.gsfc.nasa.gov/docs/StarChild/questions/question19.html E: Radar is purported to be the world's tallest horse. He stands 19 hands, $3 \frac{1}{2}$ inches from the ground to his shoulder. One hand is 4 inches. How tall is he in feet? http://www.priefert.com/dynamic/radar/about_radar.php F: Create your own problem about a unit of length not covered in this homework & solve it. G: Convert your height to cm.</p> <p>9.2:</p> <p>9.2: 1-4 A: Find the area of a garden 12ft x15ft & the area of a sheet of plywood 4ft x 8ft. B: Measure & give the dimensions & area of something in your own life. C: What times what gives about 20? 50? 425? (There are many answers, so please choose numbers that are fairly close together. For example, 800 is about 30 times 25) D: A house is 1050 square feet. Give a length & width that when multiplied together give about 1050. This is to help you picture how large the house is. 9.2: 5,6,8,9,11,13,14 E: A box is 1ft by 18 in by 9 in. What is its volume in cubic feet? 9.2: 16,17,19,22 F: A microwave with advertised capacity 1.5 ft^3 measures 15 in x 15 in x 11 in on the inside. Find its actual capacity in feet. G: A garbage container is approximately 12 in x 8 in x 15 in. It uses size 13 gallon sacks. Find the actual volume of the container in gallons. H: Measure & give the dimensions & volume of something in your own life. 9.2: 24,25,29,33-35,38-40,46,47,54-56,58 I: How many cups are in a gallon? J: One square mile is 640 acres. A recent wildfire in California burned about 10,000 acres. How many square miles were burned? http://abclocal.go.com/kabc/story?section=local&id=3897802 K: True or False? If the sides of a square are doubled, the area also doubles. L: What happens to the volume of a cube if its sides are doubled?</p>
Feb 17	10.1	Chapter 8 Test Corrections
Feb 20	Presidents Day Holiday	

Feb 21	10.1,10.2	<p>9.3: 9.3: 4,7,10,11,14,17,20,21,23,28,36,37,40,49 A: Convert 0°C & 40°C to Fahrenheit. What's significant about the temperatures? B: Convert 212°F & 98.6°F to Celsius. What is significant about these? C: Increasing temperature by 1°C increases it by how many degrees Fahrenheit? D: Convert 250°C to Kelvin. Convert 0°K to Celsius & Fahrenheit. What is significant about the Kelvin temperature scale? 9.3: 52-54,57,58,66,67,69,71,72,74-79,88 E: How much does a cup of water weigh in pounds? Use this to estimate the weight in pounds of a gallon of milk & a 5 gallon jug of herbicide. F: One stone, a British unit of measuring weight, is 14 pounds. Andre the Giant weighed about 36 stone. Estimate his weight to the nearest 10 pounds. http://home.clara.net/brianp/weights.html http://www.andrethegiant.com/bio.html G: Change 46 oz to pounds & ounces. H: Convert one million pounds to tons.</p>
Feb 22	Help Session (optional)	
Feb 23	10.2	<p>10.1: 10.1: 2-5,8-10 A: What is the significance of 90°? 180°? 360°? B: If someone does an about-face, what angle has the person turned? C: What does it mean to do a 360°? 10.1: 12,13,15,20,22,23,25,28-32,37-39,44,45 D: Give three examples each of the following in real life: points, lines, planes, angles, parallel lines, perpendicular lines. E: In calculus, radians are used rather than degrees. One radian is the measure of the angle formed by the sector of the unit circle whose arc is length one. To convert between degrees & radians, use the proportion: $\frac{x \text{ radians}}{2\pi} = \frac{y \text{ degrees}}{360}$. Convert 45° & 60° to radians. Convert $\frac{\pi}{6}$ radians & 2π radians to degrees. F: There are many ways to designate angles. For example, 0° = 360° & 270° = -90°. Write 180° & 30° three different ways.</p>
Feb 24	10.3	Chapter 8 Test Corrections Resubmits
Feb 27	10.4	<p>10.2: A: What is the sum of the angles in a triangle? a square? a rectangle? 10.2: 2,3,6,7,10,11,13-19,21,24-30,32,33,37,44-47 10.3: A: What is a regular polygon? 10.3: 1-7,9,10,13-15,17,19,20,22,23,26,29,30,32-34,39-41,43,44,47,51-54 B: List three examples of hexagons in your own life.</p>
Feb 28	10.5	
Mar 1	Help Session (optional)	
Mar 2	10.6	<p>10.4: 2,3,5,8-14,16,17,20-24,26,32,33,36-38,40,48-50 10.5: 1,2,4,5,8,10,11,13,16,18,19,21,23,25-27,30,31,34,39,40,42,43</p>
Mar 3	Review	10.6: 1,4,5,8,10,11,13,16,17,20,21,23-25,27,30,35,47,50
Mar 6	Chapters 9 & 10 Test	Chapters 9&10 Extra Credit Review