MATH 213 COURSE SCORES, FALL 2010

In classPass / NPIndividualImage: Second Decision of the days you volunteer to	FRACTIONS, DECIMALS AND PERCENTS SKILLS TEST										
*mark the days you attend and mark V on the days you volunteerWeek 1Week 2Week 3Week 4Week 5MMMMMMMTTTTTTRRRRRRRFFFFFFWeek 6Week 7Week 8Week 9Week 10MMMMMMTTTTTRRRThanksgiving HolidayRFFFFFQuizzes - 15%Activity Follow-UpComputer LabsWeb SitesOther Assignments9.19.30II9.30.1III9.4IIII10.2IIII11.1IIIQuiz TOTAL11.2II <td< td=""><td>In c</td><td>lass</td><td>Pass / NP</td><td>Ind</td><td>ividual</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	In c	lass	Pass / NP	Ind	ividual						
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Scores for: _____

% Range	Grade	% Range						
93 –100	А	87 – 89	B+	77 – 79	C+	67 – 69	D+	< 60
90 - 92	A-	83 – 86	В	73 – 76	С	63 – 66	D	Grade
		80 - 82	B-	70 – 72	C-	60 - 62	D-	F

Mth 213 Fractions, Decimals, and Percents Skills Test

You are **<u>required</u>** to pass a Fractions, Decimals, and Percents (FD&P) Skills Test in Mth213. There are 21 problems. You must get at least 17 of them correct to pass the FD&P Skills Test. You have 30 minutes in which to do this. YOU MAY NOT USE A CALCULATOR. You may use as much scratch paper as you wish.

The test covers the four basic arithmetic operations on fractions, basic problems involving percents, and decimals (four basic operations and converting rational numbers to fractions). If you know some basic properties of arithmetic, such as the distributive property and the multiplication property of zero, you can do many of the problems very quickly and without pencil-work.

A small amount of time will be provided in class to prepare for the FD&P Skills Test. However, most of your preparation was done in Mth212. You will receive a Practice FD&P Skills Test, and you should do this practice several times until you are **extremely** comfortable with the problems.

One-half hour of class time during the first or second week of the term will be used to administer the FD&P Skills Test to your class. (See your class schedule.) If you pass it at that time you will receive 10 points of extra credit towards your Mth213 grade. If you do not pass it you will need to retake it. In order to do a retake you must call Sharyne Ryals, the math department office manager, at 503-838-8465 to make an appointment. You may also visit her office in MNB 116 to schedule an appointment. There will be NO more class time spent on the FD&P Skills Test in Mth213.

If you pass the test after the initial class offering but before the end of the fourth week of the term you will receive 5 points extra credit towards your grade in Mth213.

YOU MUST PASS THE FD&P SKILLS TEST ON OR BEFORE FRIDAY OF DEAD WEEK. IF YOU DO NOT, YOU WILL NEED TO RETAKE MTH213.

If you retake the FD&P Skills Test and do not pass it, you should get some help! Immediately! You can see your instructor, use the Tutoring Center, ask another (more skilled) student, and/or review your Mth212 work from the text.

After three retakes of the FD&P Skills Test, if you have still not passed, Sharyne will give you a Retake Permission Slip. You are **required** to take this slip to your instructor before you can proceed. Your instructor will provide you with additional, individual assistance and will then write the number of times you can continue retaking the FD&P Skills Test on the Retake Permission Slip. You must present the completed Retake Permission Slip to Sharyne before further retesting can occur. This process will repeat until you have passed the FD&P Skills Test or until Dead Week ends, whichever comes first.

If you have any questions now is the time to ask! You are encouraged to contact your instructor:

Email: kruczekk@wou.edu Office Phone: 503-838-8829

DO NOT DELAY PREPARATION FOR THE FD&P SKILLS TEST !!!

Mth213 Fractions, Decimals, and Percents Skills Test Retake Permission Slip

STUDENT'S FULL NAME					
INSTRUCTOR'S NAME					
CLASS HOUR	DATE				

This student has instructor permission to retake the Fractions Skills Test ______ times. If the student is unable to pass the Fractions Skills Test after this number of retakes, s/he is required to see the instructor for more assistance before further retesting can occur.

Instructor Signature	
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This student has instructor permission to retake the Fractions Skills Test ______ times. If the student is unable to pass the Fractions Skills Test after this number of retakes, s/he is required to see the instructor for more assistance before further retesting can occur.

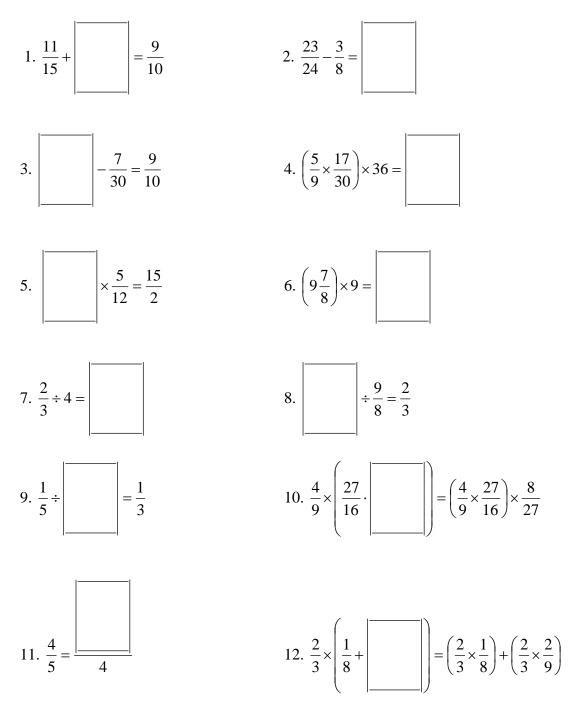
Instructor Signature	

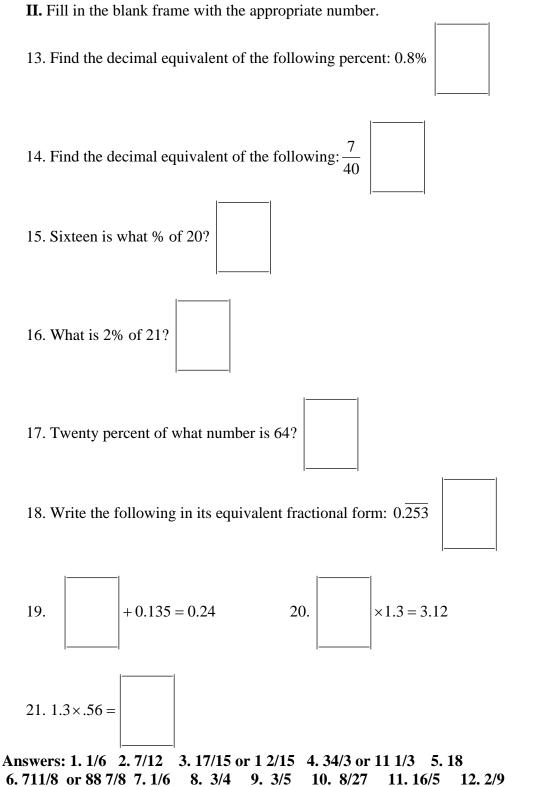
PRACTICE FRACTIONS, DECIMALS, PERCENTS

SKILLS TEST #1

Make each sentence or statement TRUE by filling in the blank frame <u>WITHOUT</u> the use of a CALCULATOR! Passing criterion is AT LEAST 17 correct in ONE-HALF HOUR.

I. Fill in the blank frame with the <u>SIMPLEST NAME</u> for a fraction.





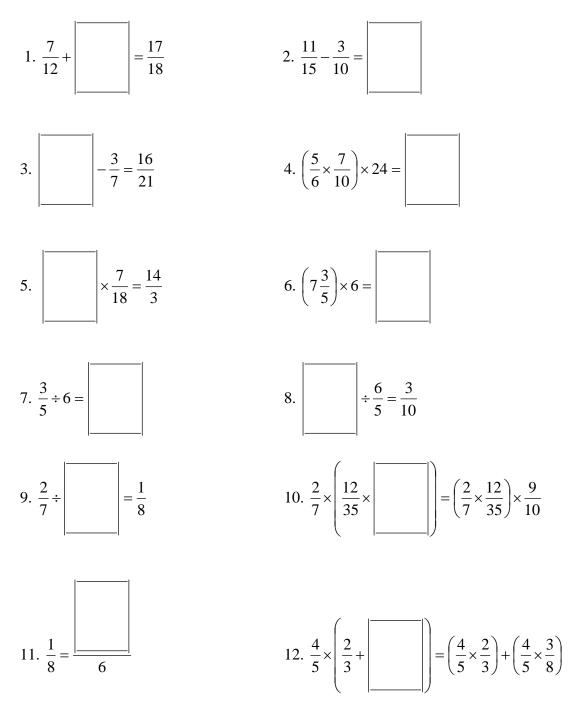
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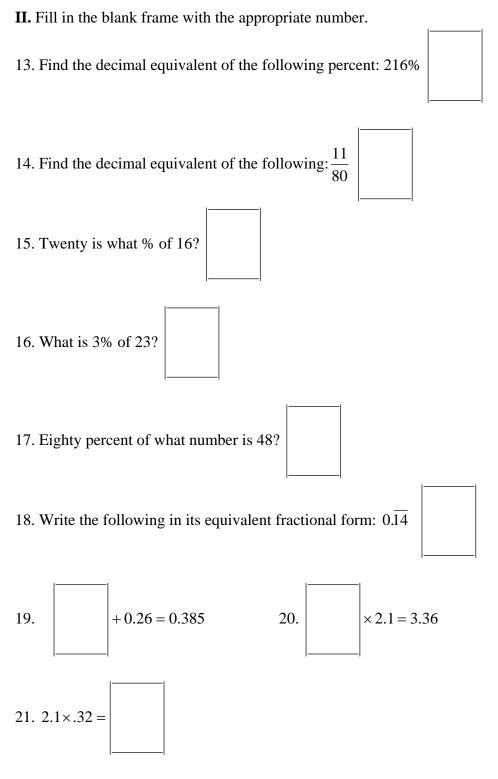
PRACTICE FRACTIONS, DECIMALS, PERCENTS

SKILLS TEST #2

Make each sentence or statement TRUE by filling in the blank frame <u>WITHOUT</u> the use of a CALCULATOR! Passing criterion is AT LEAST 17 correct in ONE-HALF HOUR.

I. Fill in the blank frame with the <u>SIMPLEST NAME</u> for a fraction.





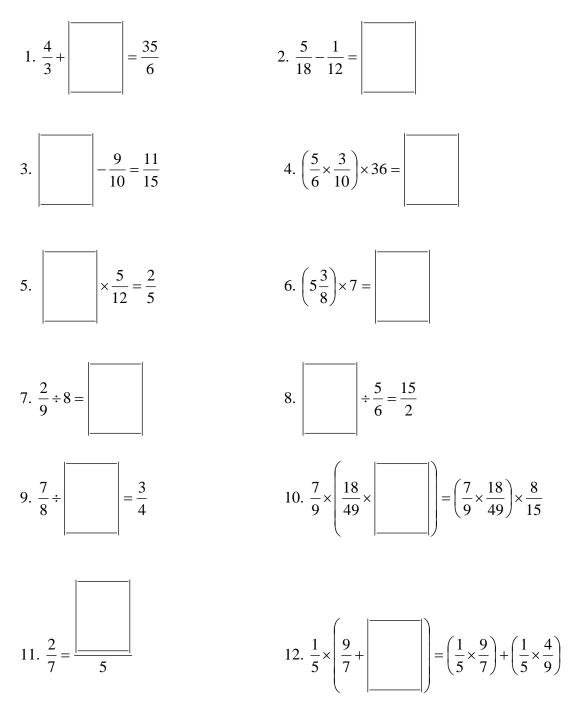
Answers: 1. 13/362. 13/303. 25/21 or 1 4/214. 145. 126. 45 3/5 or 228/57. 1/108. 9/259. 16/710. 9/1011. 3/412. 3/813. 2.1614. 0.137515. 125%16. 0.6917. 6018. 14/9919. 0.12520. 1.621. 0.672

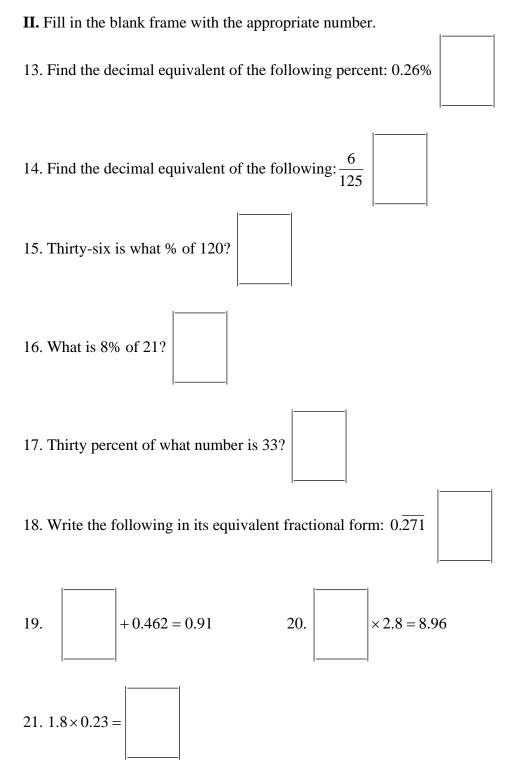
PRACTICE FRACTIONS, DECIMALS, PERCENTS

SKILLS TEST #3

Make each sentence or statement TRUE by filling in the blank frame <u>WITHOUT</u> the use of a CALCULATOR! Passing criterion is AT LEAST 17 correct in ONE-HALF HOUR.

I. Fill in the blank frame with the <u>SIMPLEST NAME</u> for a fraction.





Answers: 1. 9/2 or 4 1/2 2. 7/36 3. 49/30 or 1 19/30 4. 9 5. 24/25 6. 37 5/8 or 301/8 7. 1/36 8. 25/4 or 6 1/4 9. 7/6 10. 8/15 11. 10/7 or 1 3/7 12. 4/9 13. 0.0026 14. 0.048 15. 30% 16. 1.68 17. 110 18. 271/999 19. 0.448 20. 3.2 21. 0.414

Section 9.2: Drawing Regular Polygons

BBN: Conceptual Approach, page 592 – 594: Carefully follow the directions and

- 1. Draw a **REGULAR PENTAGON** using the <u>Vertex Angle</u> technique.
- 2. Draw a **REGULAR HEXAGON** using the Inscribed Polygon in a Circle technique
- 3. Draw a **REGULAR HEPTAGON** using either the <u>Vertex Angle</u> technique or the <u>Inscribed</u> <u>Polygon in a Circle</u> technique.

Polygon Vertex Angles
Sum
Degular Delvgener Vertey Angles
Regular Polygons: Vertex Angles
Congruence
Definition
Examples
Pagular Palygona
Regular Polygons Definition
Examples
Tessellation
Definition
Triangles?
Quadrilaterals? Convex or concave?
Pentagons?
Hexagons?

Regular Tessellations Definition

Examples

Semi-Regular Tessellations Definition

Examples

9.3 CUBES AND PAINT

- 1. Imagine a cube made of $3 \times 3 \times 3$ smaller cubes glued together. If you dip the large $3 \times 3 \times 3$ cube in paint and then pull the large cube apart into 27 small cubes; how many of the small cubes will have:
 - a. Paint on exactly 0 faces? b. Paint on exactly 1 face?
 - c. Paint on exactly 2 faces? d. Paint on exactly 3 faces?
 - e. Paint on 4 or more faces?
- 2. Imagine a cube made of $4 \times 4 \times 4$ smaller cubes glued together. If you dip the large $4 \times 4 \times 4$ cube in paint and then pull the large cube apart into 64 small cubes; how many of the small cubes will have:
 - a. Paint on exactly 0 faces? b. Paint on exactly 1 face?
 - c. Paint on exactly 2 faces?

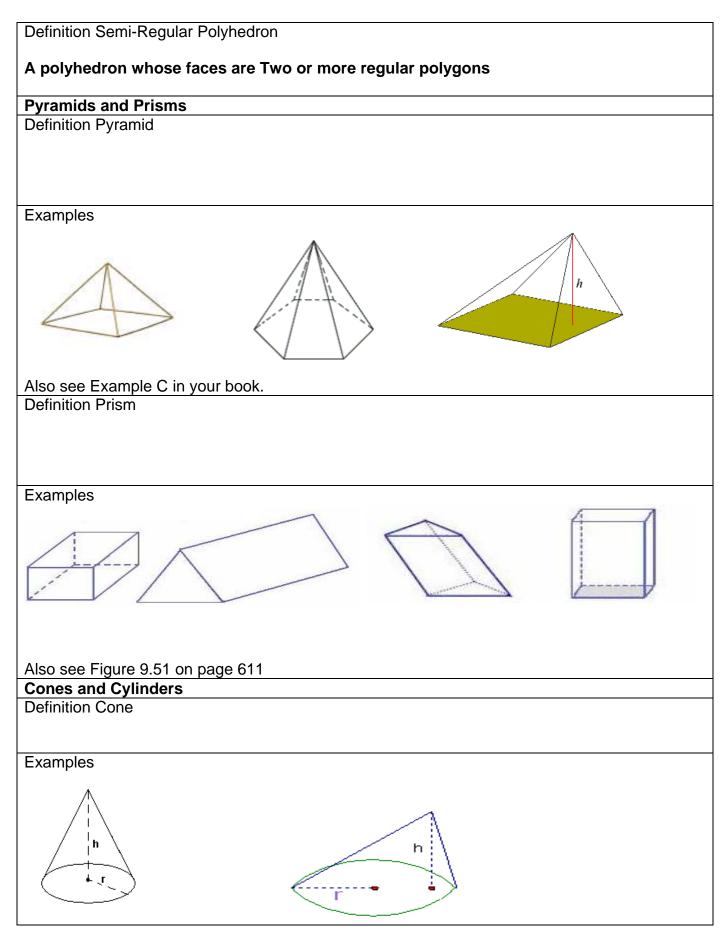
d. Paint on exactly 3 faces?

e. Paint on 4 or more faces?

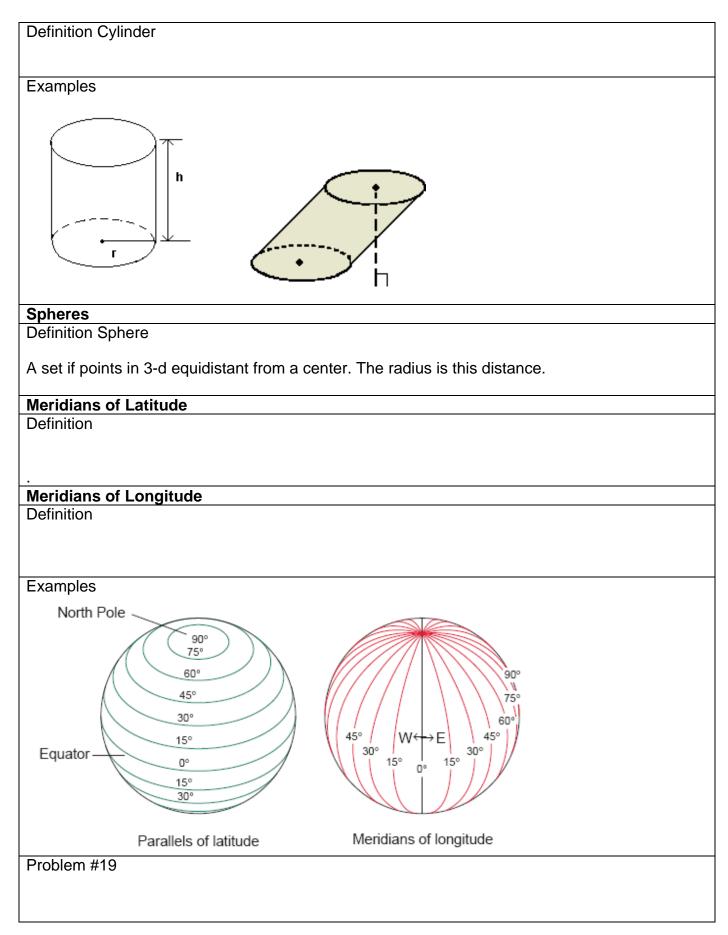
3. Repeat to extend this idea to any big cube made in this way. Organize your data in this table. Hint Look for general patterns in finding the cubes with 0, 1, 2, and 3 faces painted. Don't just look at the total numbers in the first three rows of the following table.

Dimensions	0 faces painted	1 face painted	2 faces painted	3 faces painted	\geq 4 faces painted
3 × 3 × 3					
4 × 4 × 4					
5 × 5 × 5					
6 × 6 × 6					
n × n × n					

Polyhedron (polyhedra)		
Definition Polyhedron		
The surface of a figure whose	e sides are all polygonal region	ns.
Definition Polyhedron Edge	Definition Polyhedron Face	Definition Polyhedron Vertex
One of the edges making up the framework	Polygonal regions forming surface	The intersection of the edges of the polyhedron
Definition Solid		
The union of the polyhedron a	and its interior	
Definition Convex Polyhedron		
Line segment connecting any its surface	two of its points is contained	inside the polyhedron or on
Definition Concave Polyhedron		
A polyhedron which is not co Definition Regular Polyhedron	nvex.	
Dominion Rogalar Polynoaron		
Platonic Solids		
Tetrahedron	Cube (hexahedron)	Octahedron
Dodecahedron	lco	sahedron



§9.3 KEY IDEAS, page 3 of 3



§11.1 KEY IDEAS, page 1 of 1

Mappings: A function that takes a geometric figure and moves, reflects, and/or rotates it to a
congruent geometric figure.
Congruent Polygons:
Corresponding Sides:
Corresponding Angles:
Corresponding Angles.
Examples:
F F
Triangle Congruence Properties
Side – Side (SSS)
Examples
Side – Angle – Side (SAS)
Examples
Angle – Side – Angle (ASA)
Examples
SSA: Not a property
Examples
AAA: Not a property
Examples

Math 213, Section 10.2 Problem Solving

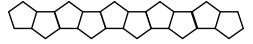
- 1. Explain how to get the area formula for a parallelogram in a way that a child would understand.
- 2. Explain how to get the area formula for a trapezoid in a way that a child would understand.
- 3. 10.2 Problem Opener
 - a. Original: Each of the 10 equilateral triangles in the following figure has sides of length 1 unit, and the perimeter of the entire figure is 12 units. What will the perimeter of the figure be if it is extended to include 50 such triangles?



b. Extension 1: Each of the 10 squares in the following figure has sides of length 1 unit, and the perimeter of the entire figure is _____ units. What will the perimeter of the figure be if it is extended to include 50 squares?

			_
1 1 1		1 1	1 1 1
		1 1	1 1 1
1 1 1		1 1	

c. Extension 2: Each of the 10 pentagons in the following figure has sides of length 1 unit, and the perimeter of the entire figure is _____ units. What will the perimeter of the figure be if it is extended to include 50 pentagons?



4. Section 10.2 Questions #30, 32, 34 and 36.

For the ten triangles on the next page: Carefully decide which triangles are congruent. Angles that look like right angles are right angles.

- a. For each congruent pair, state the congruence relationships such as $\overline{AB} \cong \overline{CD}$ or $\angle A^{"}A'A \cong \angle B'B^{"}B$.
- b. For each congruent pair, explain which congruence property (SSS, SAS, ASA) determines the congruence.

