THIS PACKET IS DUE ON EXAM DAY. YOU MUST TURN IT IN TO THE PREFECT BEFORE THE EXAM BEGINS. LATE PAPERS WILL <u>NOT</u> BE ACCEPTED. DO<u>NOT</u> HAND IT INTO THE OFFICE.

Details:	Period 1	115	
	Period 2	115	
	Period 5	110	

The number of items on the exam may change without notice, however it would be similar. Scoring may also change, but will remain similar.

Format:

- I. Scantron
 - a. 20 Always, Sometimes, Never (40 points)
 - b. 25 Multiple Choice (50 points)
 - c. 6 Are these $\Delta s \cong$? What is the reason/postulate? (12 points)
 - d. 5 Most descriptive name of the quadrilateral (10 points)
- II. Write out your answers
 - a. 3 Fill in the reasons in the proof (18 points)
 - b. 2 Complete whole proof (20 points)
 - c. 3-5 Extra credit (6-10 points)

Major Content: Covers chapters 1 – 5 of our text, including:

- o Logic: conditional, converse, inverse, contrapositive, $\cap\,\&\,\cup\,$
- o Degrees, minutes, seconds
- o Perpendicularity
- Complementary and supplementary angles
- Addition, subtraction, multiplication, and division properties
- o Transitive and substitution properties
- $\circ \quad \text{Congruent triangles and CPCTC}$
- Equidistance theorem
- Parallel and perpendicular lines and slope
- Parallel lines with proof
- Quadrilaterals and their properties (parallelogram, square, rectangle, rhombus, kite, trapezoid, and isosceles trapezoid)
- Proving parallelograms
- Indirect proof
- Proving quadrilaterals

Ways to study for the exam

- Eat and sleep well.
- The one best thing to do, outside of what is assigned and the classwork, is to take ALL of your old quizzes and tests, take a clean sheet of paper, and re-work every one of the problems. Just looking at them is NOT going to help you know if you really remember how to do the problems. Bring questions you might have to review.
- Complete the attached "Write your own exam" outline. This will force you to look back at each section of the book that we have covered and do some of those problems.
- Study with a friend. Ask each other questions.
- Review the topic outline. Know what each refers to and what might be asked.

conditional, converse, inverse, contrapositive	∩&∪
Degrees, minutes, seconds	Perpendicularity

Complementary and supplementary angles	Addition, subtraction, multiplication, and division
	properties
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Transitive and substitution properties	Congruent triangles and CPCTC
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Equidistance theorem	Parallel and perpendicular lines and slope
Parallel lines with proof	Quadrilaterals and their properties (parallelogram,
Parallel lines with proof	square, rectangle, rhombus, kite, trapezoid, and isosceles
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Parallel lines with proof	square, rectangle, rhombus, kite, trapezoid, and isosceles
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Proving parallelograms	Indirect proof

Proving quadrilaterals				
Complete the following proof by selecting the <i>best</i> option for the missing statement or reason.				
	YTWX is a \square . Y X			
Y	$\overline{P} \perp \overline{TW}$	z /		
\overline{Z}	$\overline{W} \perp \overline{TY}$			
T	$\overline{\mathrm{TP}} \cong \overline{\mathrm{TZ}} \qquad \qquad T \stackrel{2}{\swarrow} \stackrel{2}{\longrightarrow} W$			
Concl: T	WXY is a rl	hombu	ıs.	
Staten		Reason	15	
YTWX is a		Given		
YP 1 TW	&			
ZWLTY	• .			
$\angle 1 \& \angle 2$ are rig	ght∠s	1.	A.	$\perp \Rightarrow \text{right} \angle s$
			B.	Right are ≅
			С.	\square \Rightarrow opposite \angle s are \cong
			D. E	\square \Rightarrow opposite sides are \cong
$\angle 1 \cong \angle 2$		2.	Е. А.	None of the above
$\angle 1 \cong \angle 2$		۷.	А. В.	$ \perp \Rightarrow \text{right} \angle s \\ \text{Right are} \cong $
			Б. С.	$\square \Rightarrow opposite \angle s are \cong$
			с. D.	\Rightarrow opposite $\ge s$ are \equiv \Rightarrow opposite sides are \cong
			D. Е.	None of the above
$\overline{\mathrm{TP}} \cong \overline{\mathrm{TZ}}$		Given	ш.	None of the above
$\frac{\mathbf{IP} \neq \mathbf{IZ}}{\angle T \cong \angle T}$		3.	A.	Supplements of congruent angles are
$\angle 1 \cong \angle 1$		з.	A.	congruent
			B.	Transitive
			С.	Substitution
			D.	Reflective
			E.	None of these
4. A. Δ	$YPT \cong \Delta WZT$	5.	А.	SSS
Β. Δ	$YPT \cong \Delta TWZ$		B.	SAS
-	$YPT \cong \Delta WTZ$		С.	ASA
D. N	lone of these		D.	HL
		(E.	CPCTC
$\overline{\mathrm{TW}} \cong \overline{\mathrm{YT}}$		6.	А. В.	SSS SAS
			Б. С.	ASA
			с. D.	HL
			Б. Е.	CPCTC
TWXY is a r	hombus.	7.	A.	If 🗖 contains a pair of consecutive sides
				that are \cong , then it is a rhombus
			B.	If either diagonal of a 🗖 bisects two angles
				of the 🗖, then it is a rhombus
			C.	If the diagonals of a quadrilateral are \perp bis of
				each other, then the quadrilateral is a
				rhombus
			D.	If two disjoint pairs of consecutive sides of a
				quadrilateral are \cong , then it is a rhombus
			Е.	None of the above