name:	Perioa:	Date:
Circles Assignment		
Answer the following questions.		
1. Define constructions.		
2. What are the basic tools that are used to draw geo	ometric constructions?	
3. What is the use of constructions?		
4. What is Compass?		
5. What is Straight edge?		
6. What are the seven basic geometric constructions?	?	
7. Name two geometric shapes that can be construct	ed using seven basic ge	eometric constructions.
8. Write the definition of Perpendicular lines.		
9. Write the definition of Parallel lines.		
10. Name two congruent angles if bisector of angle A	BC is LM ray is.	
11. Name two congruent segments, if XY line is the p	erpendicular bisector o	of \overline{MN} at point A?
12. Draw Perpendicular bisector of a line segment AB	3 through a point on the	e line and write its steps.

Name:	Period:	Date:
Circles Assignment		
State true or false		
13. An angle bisector is a point that o	divides an angle into two congruent a	ingles.
(a) True	(b) False	
14. A segment bisector is a point tha	nt divides a line segment into two equ	al parts.
(a) True	(b) False	
15. A perpendicular line is a line, seg	ment or ray that divides a segment ir	nto two congruent segments.
(a) True	(b) False	
ANSWERS		
Answer the following questions.		
1. Define constructions.		
The Drawing of various lines, angles, constructions.	and shapes using only pencil, compass	ses and straightedge is known as
2. What are the basic tools that are u	used to draw geometric constructions	s?
Constructions use only pencil, compa	iss, and a straightedge.	
3. What is the use of constructions?		
Constructions are useful to draw lines	s and angles without measuring anyth	<mark>ing.</mark>

Name:	Period:	Date:	_
Circles Assignment			
_			
4. What is Compass?			
Compasses are a drawing instrument used for drawing cir	cles and arcs. It h	as two legs one with a noint a	and
the other with a pencil. Distance between the point and t			
the other with a pencil. Distance between the point and t	ne penen can be a	lajusted according to ficed.	
5. What is Straight edge?			
A straightedge is simply a guide for the pencil when draw	ing straight lines	Straight adge is the basis form	of.
	ing straight inles.	Straighteage is the basic form	1 01
geometric construction which has no numbers.			
6. What are the seven basic geometric constructions?			
1 Disast a line sagment			
 Bisect a line segment. Construct congruent segments 			
3. Construct a line perpendicular to a given line th	rough a noint on t	he line	
4. Construct a line perpendicular to a given line th			
5. Construct a line parallel to a given line through	•		
6. Construct a Congruent angle.	a point not on the	inc.	
7. Construct an angle bisector.			
7. Name two geometric shapes that can be constructed t	using seven basic	geometric constructions.	
Tourish to the state of Disht to the state of the			
Equilateral triangles and Right triangles			
3. Write the definition of Perpendicular lines.			
	•		
Perpendicular lines are lines that intersect to form right	angles.		
9. Write the definition of Parallel lines.			
Parallel lines are lines which never meet and have alway	<mark>/s same distance a</mark>	<mark>apart.</mark>	
10. Name two congruent angles if bisector of angle ABC	is ray LM.		
	•		
Angle ABL and Angle ABM			

Name: _____ Period: _____ Date: _____ Circles Assignment 11. Name two congruent segments, if XY line is the perpendicular bisector of \overline{MN} at point A? \overline{MA} and \overline{AN} 12. Draw Perpendicular bisector of a line segment AB through a point on the line and write its steps. Step1. Draw a Line segment Step2. With compass set more than half the length of line segment. Step3. Put the point of the compass on one end of the segment and construct an arc above or below the segment. Step4. With same measure of compass put the point of the compass on the other end of the segment and construct an arc above or below the segment. Step5. Draw a segment connecting the intersection of the arcs.

Name:	Period: Date:				
Circles Assignment					
State true or false					
13. An angle bisector is a point that divides an angle into two congruent angles.					
(a) True	(b) <mark>False</mark>				
14. A segment bisector is a point that divides a line segment into two equal parts.					
(a) True	(b) False				
15. A perpendicular line is a line, segment or ray that divides a segment into two congruent segments.					
(a) True	(b) <mark>False</mark>				