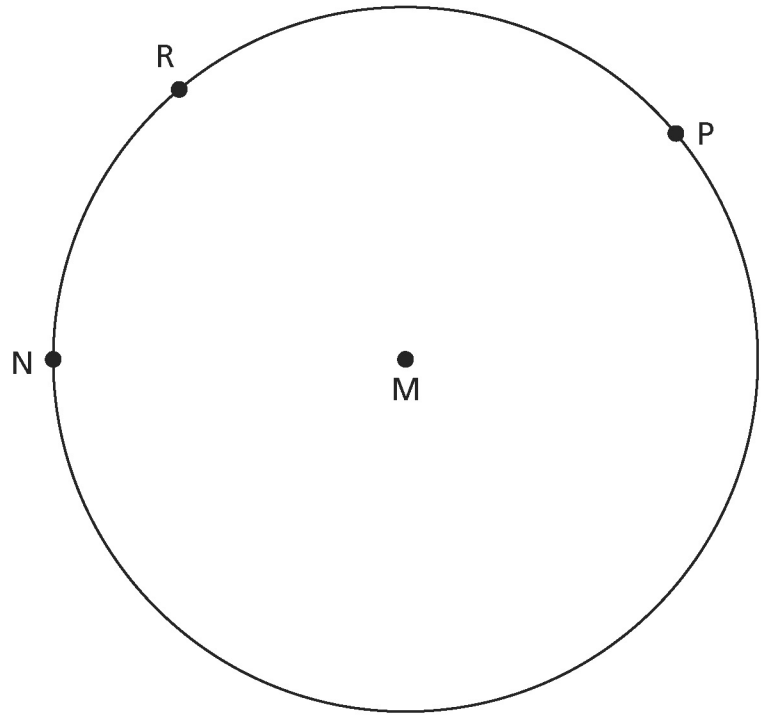
New York State Testing Program

Mathematics Test

Grade 6

2009 Scoring Guide

27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.

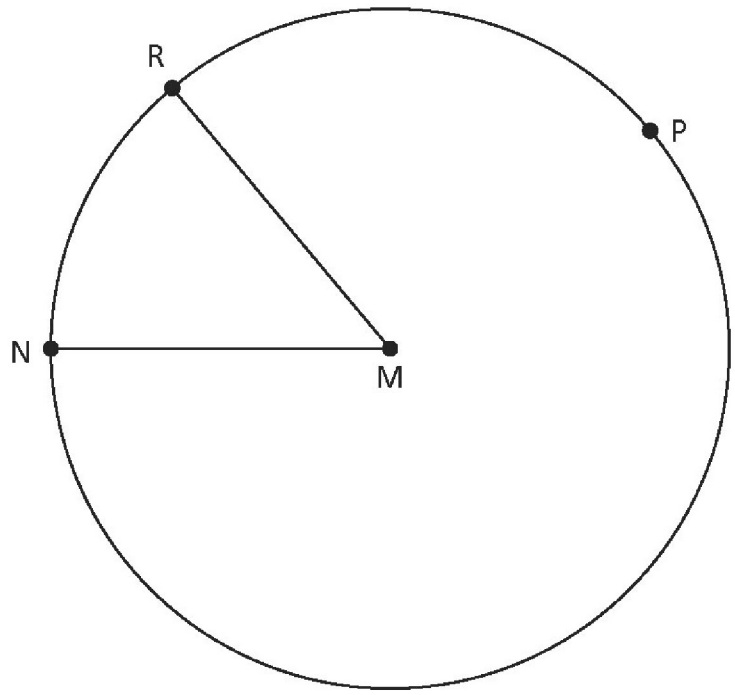


On the lines below, explain how you determined the three points that form a central angle.

QUESTION 27

STRAND 3: GEOMETRY

Complete and Correct Response:

- 

[Note: Student can connect points RMP or points NMP.]

AND

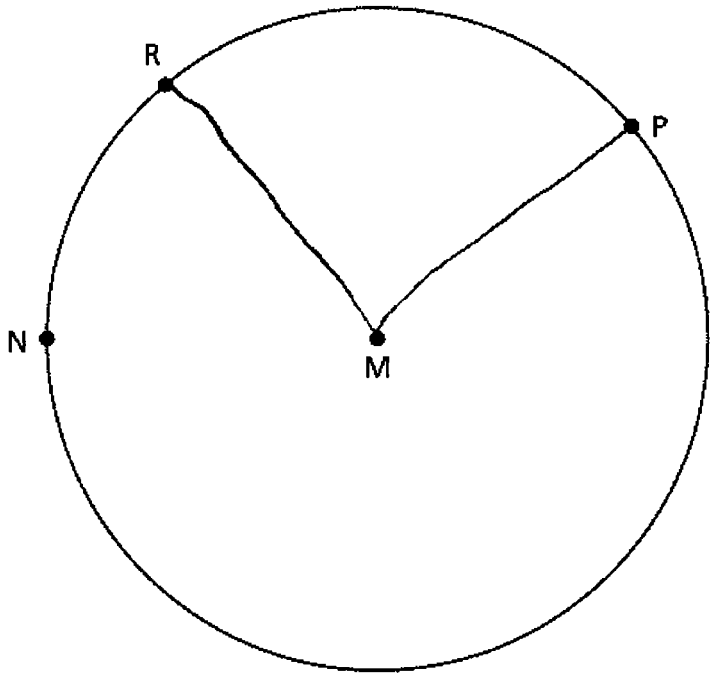
- The central angle of a circle is an angle whose vertex is at the center of the circle and whose sides are radii of the circle.

  OR other valid response

Score Points:

Apply 2-point holistic rubric.

27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



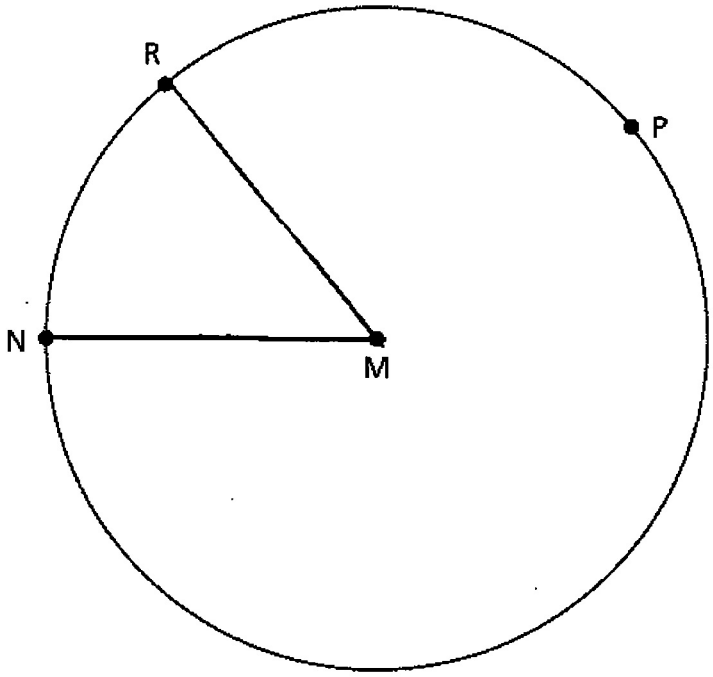
On the lines below, explain how you determined the three points that form a central angle.

I know it is a central angle beause it is an angle and it's vertex is in the center of the circle.

This response is complete and correct.

Score Point 2

27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



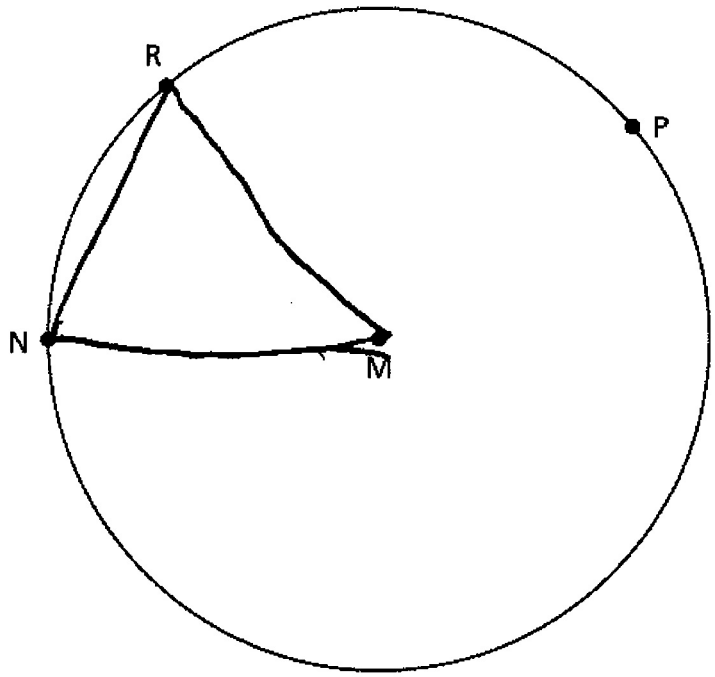
On the lines below, explain how you determined the three points that form a central angle.

Since m is the middle I just connected R, m, N to make a central triangle.

This response is only partially correct. The three points are connected correctly to form a central angle; however, this explanation incorrectly identifies a "triangle."

Score Point 1

27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



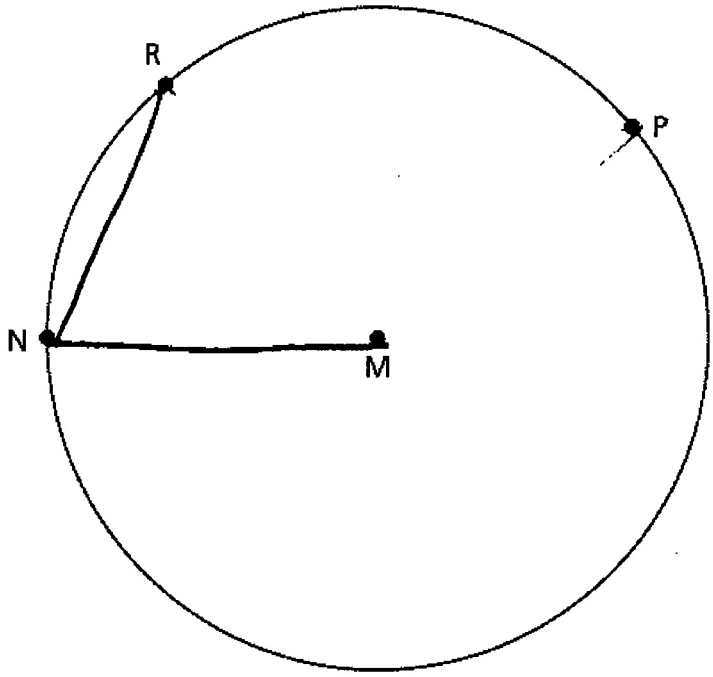
On the lines below, explain how you determined the three points that form a central angle.

I determined R, N, and M to make a central angle because M is in the center of the circle, and R and N are on the sides.

This response is only partially correct. The explanation is correct; however, the three points are connected to form a triangle.

Score Point 1

27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



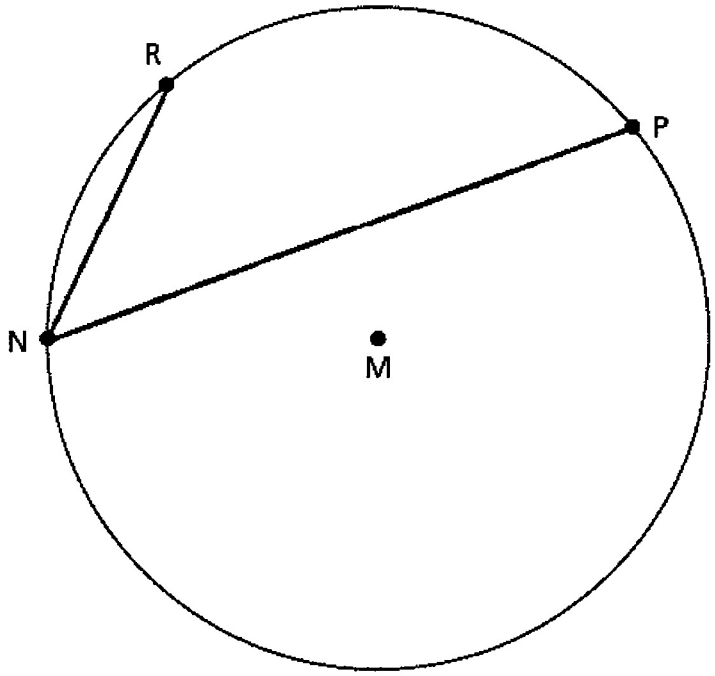
On the lines below, explain how you determined the three points that form a central angle.

I determine the three points that form a central angel. by Connecting R, N, and M.

This response is incorrect.

Score Point 0

27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



On the lines below, explain how you determined the three points that form a central angle.

I determined the three points that form a central angle because I knew a angle is three dots connected to be a angleto make an angle,

This response is incorrect.

Score Point 0

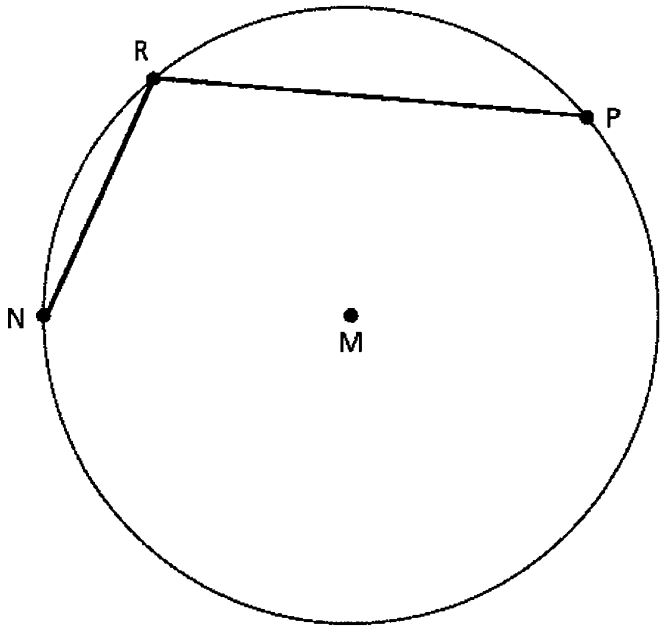
New York State Testing Program

Mathematics Test

Grade 6

2009 Practice Set

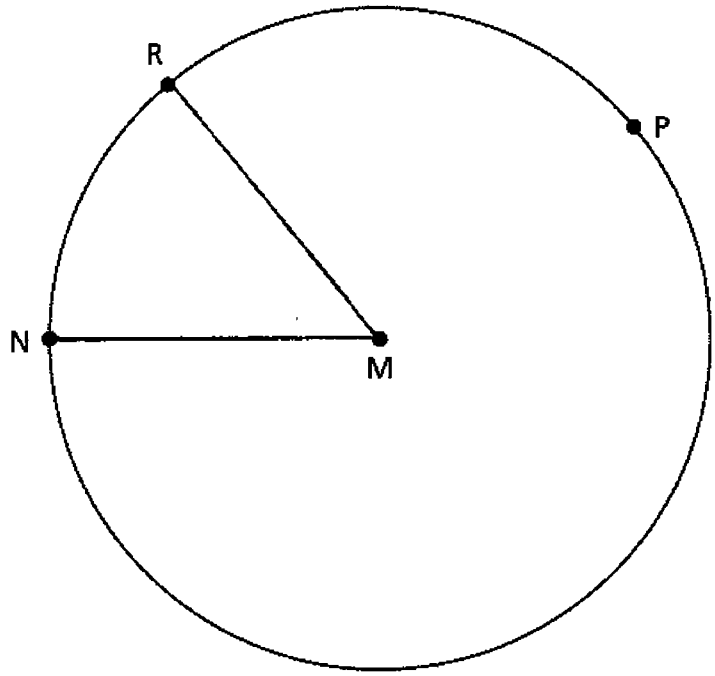
27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



On the lines below, explain how you determined the three points that form a central angle.

I determined the three points that form a central angle by using my prior knowledge and thinking that a central angle doesn't have a line connecting two points from the edge of the circle to the center of the circle so it has a line connecting two points from two edges of the circle.

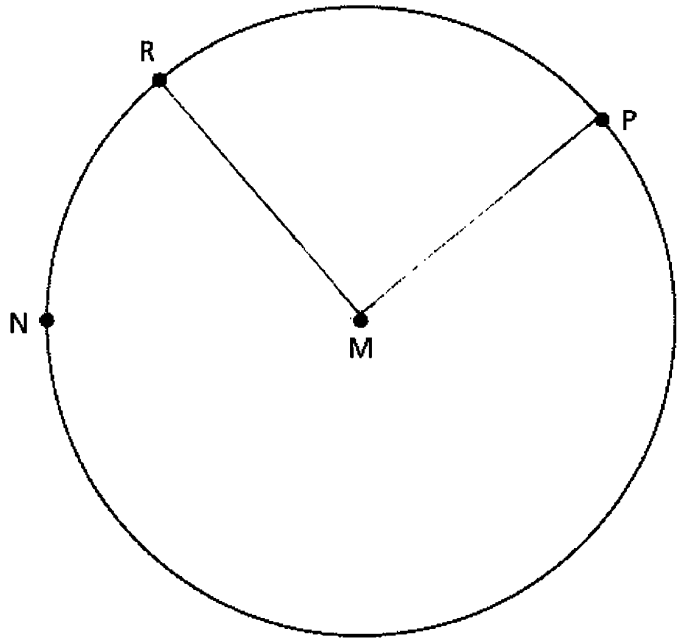
27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



On the lines below, explain how you determined the three points that form a central angle.

To determin my central angle, I Knew that a Central Angle had to Connect to the center. My angle, ∠RMN, Connects to the center.

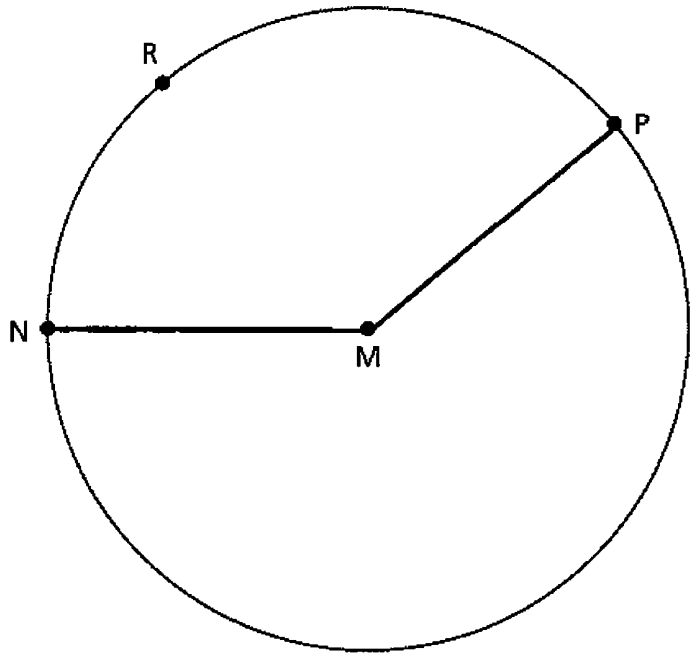
27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



On the lines below, explain how you determined the three points that form a central angle.

I determined the three points that form a central angle by first using point M as one of the points. Then I had two choices, I could either chose $\overline{RMP}$ or $\overline{RMN}$. I chose $\overline{RMP}$ as the central angle.

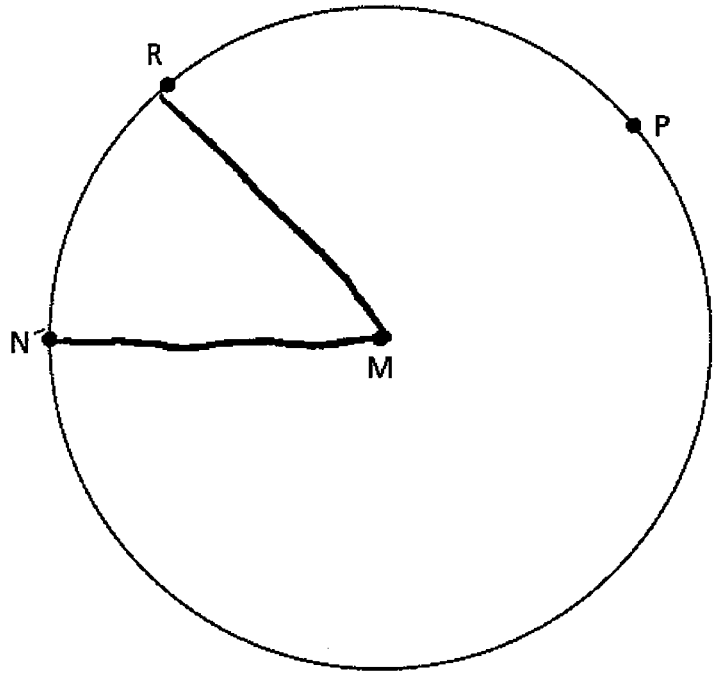
27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



On the lines below, explain how you determined the three points that form a central angle.

I think points N, M, and P form a central angle when they are connected. Becasese I think a central angle is an angle in the circle that is close to the center.

27 The points N, R, and P are on the circle below. Point M is the center of the circle. Connect three points to form a central angle.



On the lines below, explain how you determined the three points that form a central angle.

N,MR because the vertex is always M

6th GRADE MATHEMATICS

Name:_____

PRACTICE SET ANSWER KEY

PS 1	(0-2)	
PS 2	(0-2)	
PS 3	(0-2)	
PS 4	(0-2)	
PS 5	(0-2)	
PS 6	(0-2)	
PS 7	(0-2)	
PS 8	(0-2)	
PS 9	(0-2)	
PS 10	(0-2)	
PS 11	(0-2)	
PS 12	(0-2)	
PS 13	(0-2)	
PS 14	(0-2)	
PS 15	(0-2)	
PS 16	(0-2)	
PS 17	(0-2)	
PS 18	(0-2)	
PS 19	(0-2)	
PS 20	(0-2)	
PS 21	(0-2)	
PS 22	(0-2)	
PS 23	(0-2)	
PS 24	(0-2)	
PS 25	(0-2)	

PS 26	(0-2)	
PS 27	(0-2)	
PS 28	(0-2)	
PS 29	(0-2)	
PS 30	(0-2)	
PS 31	(0-3)	
PS 32	(0-3)	
PS 33	(0-3)	
PS 34	(0-3)	
PS 35	(0-3)	
PS 36	(0-3)	
PS 37	(0-3)	
PS 38	(0-3)	
PS 39	(0-3)	
PS 40	(0-3)	
PS 41	(0-3)	
PS 42	(0-3)	
PS 43	(0-3)	
PS 44	(0-3)	
PS 45	(0-3)	
PS 46	(0-3)	
PS 47	(0-3)	
PS 48	(0-3)	
PS 49	(0-3)	
PS 50	(0-3)	