Zero The Math Hero Standard Mathematical Elements - Lesson 2

Lesson 2 provides a discussion of three important geometric concepts:

- segments identify segments; name segments; use correct symbol for segments
- rays identify rays; name rays; use correct symbol for rays
- angles identify angles; name angles; use correct symbol for angles

Lesson 2 includes an explanation of the different angle types based on their measures, using units called degrees.

Zero the Math Hero - Lesson 2

Lesson 2 - Definitions

segment - a part of a line with two endpoints

Symbol for segment: AB

ray - a part of a line with only one endpoint

Symbol for ray: AB

angle - the union of two rays that share a common endpoint

Symbol for angle: ∠ABC

vertex - the common endpoint of an angle

acute angle - an angle whose measure is less than 90 degrees

obtuse angle - an angle whose measure is more than 90 degrees, but less than 180 degrees

right angle - an angle whose measure is exactly 90 degrees

Symbol for right angle:

straight angle - an angle whose measure is exactly 180 degrees
 supplementary angles - two angles whose sum is exactly 180 degrees
 complementary angles - two angles whose sum is exactly 90 degrees

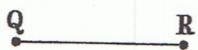
Name:	
Delas	

Lesson 2 - Practice Problems

Segments, Rays, and Angles

1. Name this line segment.

1. _____



2. Name this ray.

2.



3. Name this ray in two different ways.

3. _____



4. What type of angle is this?

4.



How would you classify this angle?
 A. Obtuse B. Right C. Straight

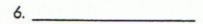
D. Acute

5. _____

Lesson 2 - Practice Problems - Continued

Segments, Rays, and Angles

6. What kind of angle is this?





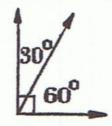
7. How many degrees does this symbol represent?





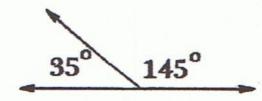
8. Are these two angles a pair of complementary angles?





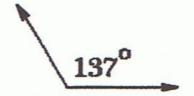
9. Are these two angles a pair of supplementary angles?





 Classify this pair of angles as complementary or supplementary.







Name:	
Date:	

Quiz – Definitions Zero the Math Hero – Lesson 2

Directions: Fill in each blank with the letter that corresponds to the correct answer, A-J.

1	an angle whose measure is exactly 180 degrees	A. acute angle
2	an angle whose measure is more than 90 degrees, but less than 180 degrees	B. angle
3	the union of two rays that share a common endpoint	C. complementary angles
4	a part of a line with two endpoints	D. obtuse angle
5	two angles whose sum is exactly 180 degrees	E. ray
6	the common endpoint of an angle	F. right angle
	a part of a line with only one endpoint	G. segment
8.	an angle whose measure is exactly 90 degrees	H. straight angle
-	two angles whose sum is exactly 90 degrees	I. supplementary angles
10	an angle whose measure is less than 90 degrees	J. vertex

Name: ANSWER KEY

Date:

Lesson 2 - Practice Problems

Segments, Rays, and Angles

1. Name this line segment.



1. QR (or RQ)

(or segment QR

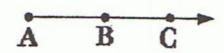
or segment RQ)

2. Name this ray.



2. TP (or ray TP)

3. Name this ray in two different ways.



3. AB, AC (or ray AB, ray AC)

4. What type of angle is this?



4. <u>acute angle</u>

- How would you classify this angle?
 A. Obtuse B. Right C. Straight D. Acute
- 5. A (obtuse)

Lesson 2 - Practice Problems - Continued

Segments, Rays, and Angles

6. What kind of angle is this?

6. straight angle

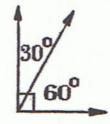


7. How many degrees does this symbol represent?

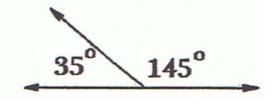
7. ____90°



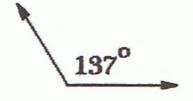
- 8. Are these two angles a pair of complementary angles?
- 8. YES



- 9. Are these two angles a pair of supplementary angles?
- 9. YES



 Classify this pair of angles as complementary or supplementary. 10. <u>supplementaru</u>





Name:	ANSWER	KEY	
Date:			

Quiz – Definitions Zero the Math Hero – Lesson 2

Directions: Fill in each blank with the letter that corresponds to the correct answer, A-J.

1	H	an angle whose measure is exactly 180 degrees	A. acute angle
2	D	an angle whose measure is more than 90 degrees, but less than 180 degrees	B. angle
3	В	the union of two rays that share a common endpoint	C. complementary angles
4.	G	a part of a line with two endpoints	D. obtuse angle
5.	I	two angles whose sum is exactly 180 degrees	E. ray
6	J	the common endpoint of an angle	F. right angle
7	E	a part of a line with only one endpoint	G. segment
8.	F	an angle whose measure is exactly 90 degrees	H. straight angle
9	C	two angles whose sum is exactly 90 degrees	 I. supplementary angles
10.	A	an angle whose measure is less than 90 degrees	J. vertex