Zero The Math Hero Standard Mathematical Elements - Lesson 5

Lesson 5 provides a discussion of the basic definition of a triangle.

Lesson 5 demonstrates how to classify triangles according to their side lengths and/or angle measures. The following triangle types are included:

- scalene
- isosceles
- equilateral
- acute
- right
- obtuse
- equiangular

Zero the Math Hero - Lesson 5

Lesson 5 – Definitions

triangle - the figure formed by three segments joining three noncollinear points

congruent segments - segments that have the same length

congruent angles - angles that have the same measure

scalene triangle - a triangle that has no congruent sides

isosceles triangle - a triangle with at least two sides congruent

equilateral triangle - a triangle that has all three sides congruent

acute triangle - a triangle whose angles are each less than 90 degrees

right triangle - a triangle that has one right angle

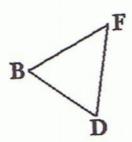
obtuse triangle - a triangle that has one obtuse angle

equiangular triangle - a triangle with all three angles congruent

Lesson 5 - Practice Problems

Classifying Triangles

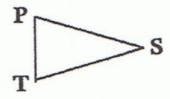
1. Name the sides of this triangle.



1. _____

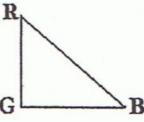
2. Name the interior angles.





3. Name the vertices of this triangle.





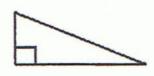
4.-7. Classify the triangles by their angles.

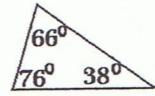
4.

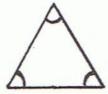


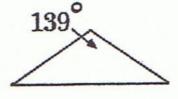
6.











4. _____

5. _____

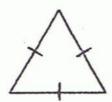
6. _____

7. _____

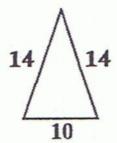
Lesson 5 - Practice Problems - Continued Classifying Triangles

8. - 10. Classify the triangles by their sides.

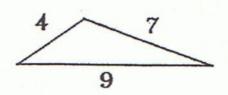
8.



9.



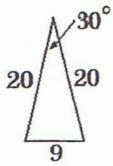
10.

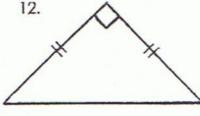


10. _____

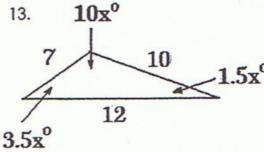
11.-13. Classify the triangles by their sides and by their angles.

11.





13.



12. _____

13. _____

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Date:	1245			

Quiz – Definitions Zero the Math Hero – Lesson 5

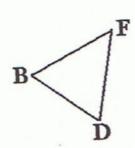
Directions: Fill in each blank with the letter that corresponds to the correct answer, A-J.

1	a triangle that has one obtuse angle	A. triangle
2	a triangle that has all three angles congruent	B. congruent segments
3	the figure formed by three segments joining three noncollinear points	C. congruent angle
	•	D. scalene triangle
4	a triangle whose angles are each less than 90 degrees	E. isosceles triangl
5	segments that have the same length	F. equilateral triangle
6	a triangle that has one right angle	G. acute triangle
7	angles that have the same measure	H. right triangle
8	a triangle that has no congruent sides	L obtuse triangle
9	a triangle with at least two sides congruent	J. equiangular triangle
10	a triangle that has all three sides congruent	

Lesson 5 - Practice Problems

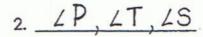
Classifying Triangles

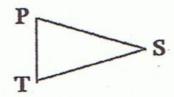
1. Name the sides of this triangle.



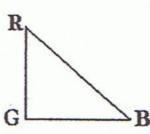
1. BF, FD, BD (or FB, DF, DB)

2. Name the interior angles.





3. Name the vertices of this triangle.



R,G,B

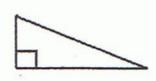
4.-7. Classify the triangles by their angles.

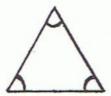
4.

5.

6.

7.





139

_ s. acute

6. equiangular 7. obtuse (or acute)

Name: ANSWER KEY Date:

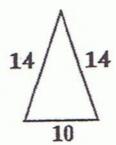
Lesson 5 - Practice Problems - Continued Classifying Triangles

8. - 10. Classify the triangles by their sides.

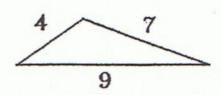
8.



9.



10.



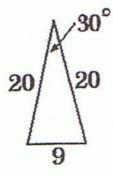
8. <u>equilateral</u>

9. <u>isosceles</u>

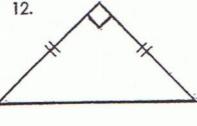
10. scalene

11.-13. Classify the triangles by their sides and by their angles.

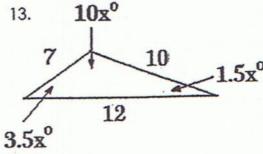
11.



12.



13.



11. acute isosceles 12. right isosceles

13. <u>obtuse scalene</u>

Name:	ANSWER	KEY
Date:		

Quiz – Definitions Zero the Math Hero – Lesson 5

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

1.	I	a triangle that has one obtuse angle	A. triangle
2	J	a triangle that has all three angles congruent	B. congruent segments
3.	Α	_ the figure formed by three segments joining three noncollinear points	C. congruent angle
	0	rade noncommunity promise	D. scalene triangle
4.	9	a triangle whose angles are each less than 90 degrees	E. isosceles triangl
5	В	segments that have the same length	F. equilateral triangle
6	Н	a triangle that has one right angle	G. acute triangle
7	С	angles that have the same measure	H. right triangle
8	D	a triangle that has no congruent sides	I. obtuse triangle
9	E	a triangle with at least two sides congruent	J. equiangular
10.	F	a triangle that has all three sides congruent	triangle