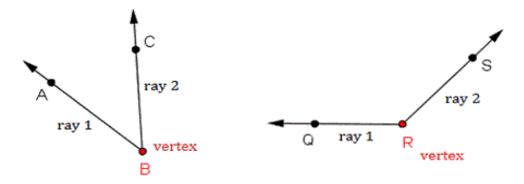
school Math 3, Classwork 7													
	WARM-UP												
1.	Compare expressions (<, >, =):												
				$12 + 12 + 12 \dots 12 \times 4 4 \times 6 \dots 3 \times 8$									
2.	Arrange the following expressions in decreasing order (without calculating their values):												
	75 -	19 65 - 49	65 - 29	75 - 29	65 - 39								
3. 4.	a) 20 b) 30 c) 40	00	such that their p	roduct is:									
	a) 14 +	- <i>x</i> = 26	b) <i>x</i> – 18 =	= 33	c) 89 - <i>a</i> = 71								

5.

## **REVIEW I**

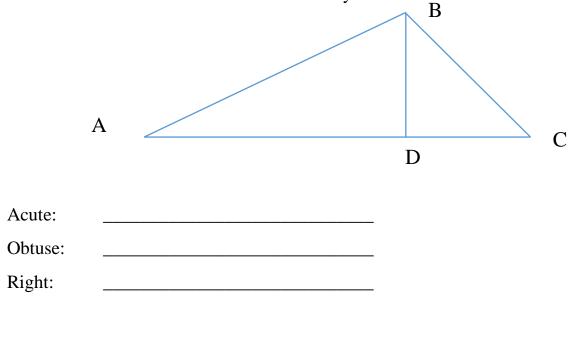
An angle is formed when two rays meet at a common endpoint. The rays are called the *sides* of the angle and their common point is called the *vertex* of the angle.

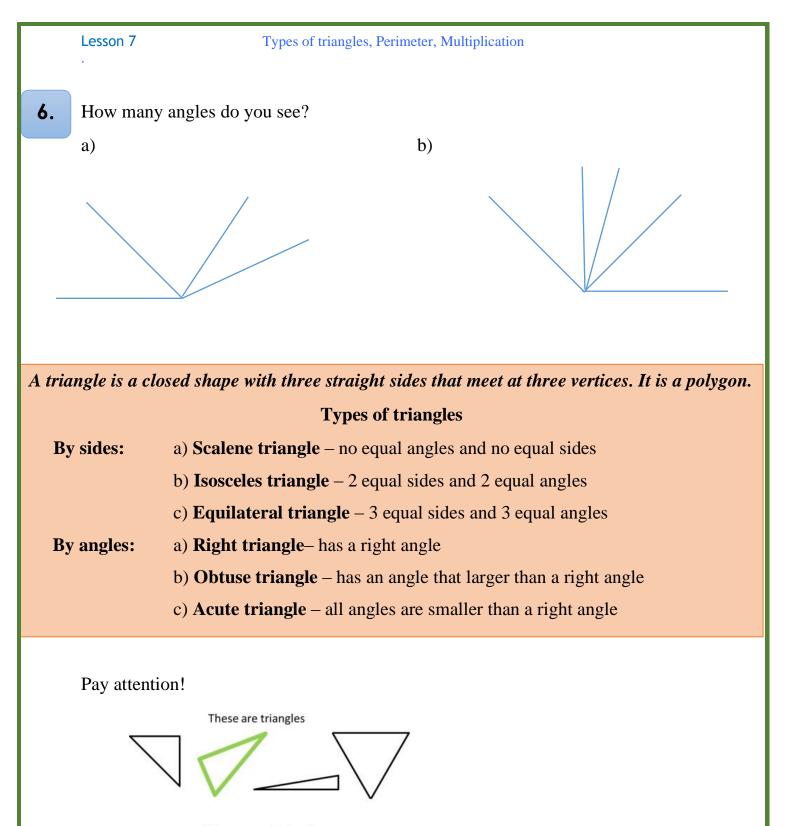


On the pictures above first angle is called the angle B and is denoted as  $\angle B$  or  $\angle ABC$  or  $\angle CBA$  (the vertex is always in the middle). The angle  $\angle ABC$  is an acute angle.

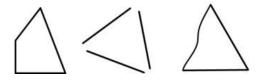
The second angle is called the angle R and is denoted as  $\angle R$ ,  $\angle QRC$  or  $\angle CRQ$ . This is an obtuse angle.

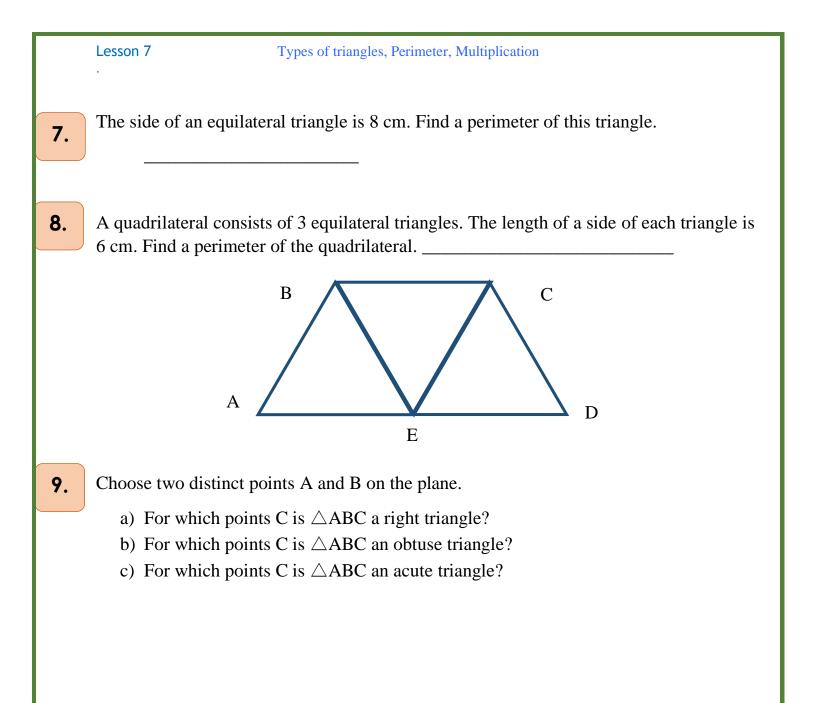
Using a right angle template, find all acute, obtuse and right angles in the figure below and write down their names in 3 different ways:



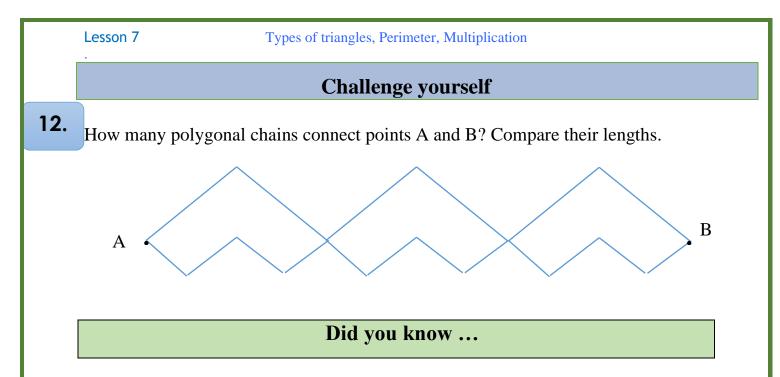


These are not triangles





	Lesson 7 Types of triangles, Perimeter, Multiplication																	
	REVIEW II																	
10.	a) Make a list of the first ten multiples of 3.																	
	b) Which of the numbers in your list are multiples of 6? What pattern do you see in where the multiples of 6 appear in the list?																	
	c) Which numbers in the list are multiples of 7? Can you predict where multiples of 7 will appear in the list of multiples of 3? Explain your reasoning.												7					
11.												umber	-					
	<ul> <li>puts 0 in her first box and decides that she will add 3 every time to get the next number.</li> <li>Ceroi:</li> </ul>										ext							
	0	3						0			]							
	Cecilia:																	
	0	9																
	b	) Ho the	w m 5th	box	times	s gre	ater	is Ce	ecilia	's nu		ber in 1			han (	Cora's	numb	er in
	<ul> <li>What about the numbers in the 8th box?</li> <li>In the 10th box?</li> <li>c) What pattern do you notice in your answers for part b? Why do you think that</li> </ul>																	
												.4						
		pat ) If (	tern Cora	exist and	ts? Cecil	lia k	ept t	heir	sidev	walk	pa	tterns ; box sh	going,	what	numt	ber wo	ould be	



What's with all the Triangles? They seem to be everywhere. The Triangle has a rich and complex history and has, since early civilizations, been the symbol of the trilogy (or "triad") that makes all existence possible.

Triangles are among the most important objects studied in mathematics owing to the rich mathematical theory built up around them in **Euclidean geometry** and **trigonometry**, and also to their applicability in such areas as astronomy, architecture, engineering, physics, navigation, and surveying.

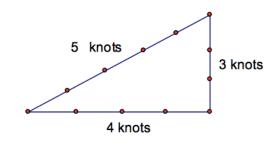
The origins of right triangle geometry can be traced back to 3000 BC in Ancient Egypt.



The Egyptians used special right triangles to survey land by measuring out 3-4-5 right triangles to make right angles. The Egyptians most studied specific examples of right triangles.

Ancient builders and surveyors needed to be able to construct right angles in the field on demand. The method employed by the Egyptians earned them the

name "rope pullers" in Greece, apparently because they employed a rope for laying out their construction guidelines. One way that they could have employed a rope to construct right triangles was to mark a looped rope with knots so that, when held at the knots and pulled tight, the rope must form a right triangle.



The simplest way to perform the trick is to take a rope that is 12 units long, make knot 3 units from one end and another 5 units from the other end, and then knot the ends together to form a loop. Try to make one yourself.