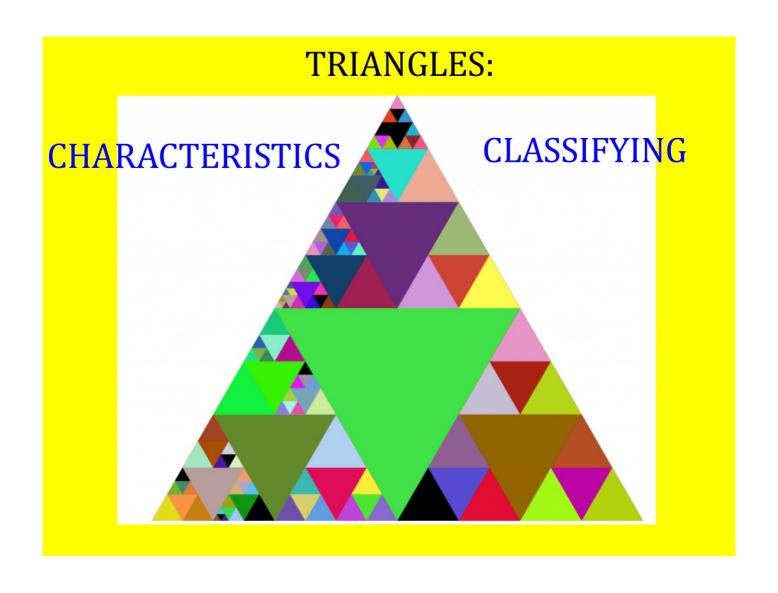
Warm Up			May 8, 2017
Graph the quadrilateral ABCD using the following coordinates: A(5,-1) B(3,3) C(-3,3) D(-4,-1)			
A(3, -1)	D(3, 3)	C (-3, 3)	D(-4 , -1)
Use the slopes and lengths of each side to classify the quadrilateral.			
Quadrilateral ABCD is a			_ because

Warm Up

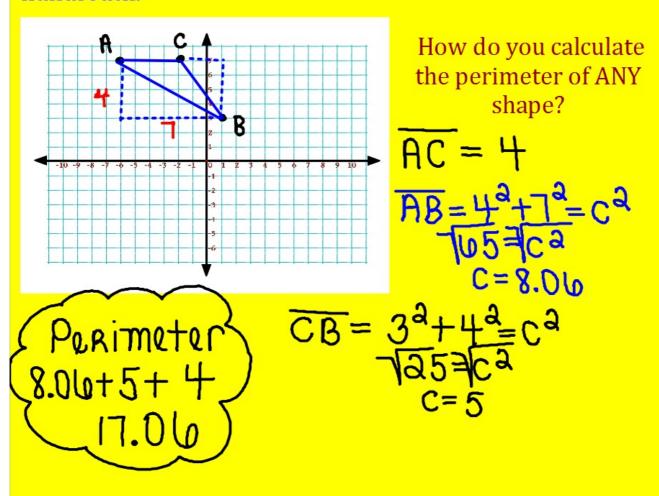
December 13, 2017

Application of Distance and Midpoint #1-4 (back of Mon. 12/11 HW)



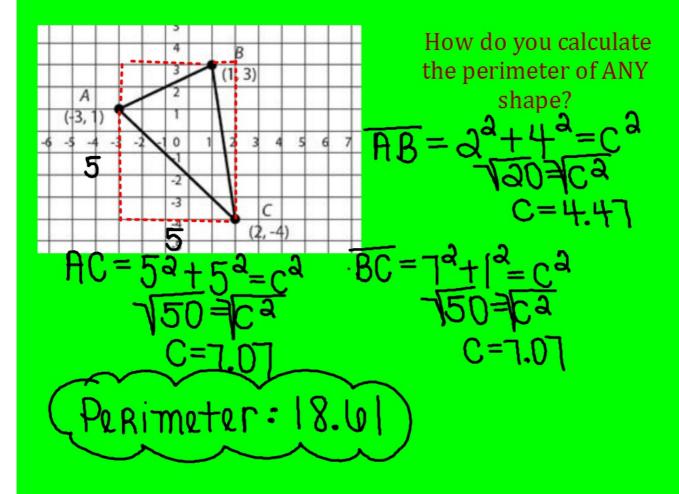
Perimeter:

Given a triangle with vertices A (-6,7) B(1,3) and C(-2, 7) What is the approximate perimeter? Round to the nearest hundredth.



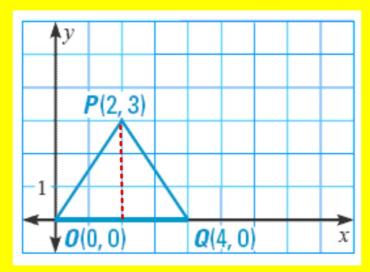
Perimeter:

Given a triangle with vertices A (-3,1) B (1,3) and C (2, -4). Calculate the perimeter of the triangle. Round to the nearest hundredth.



Area:

Determine the area of triangle OPQ.



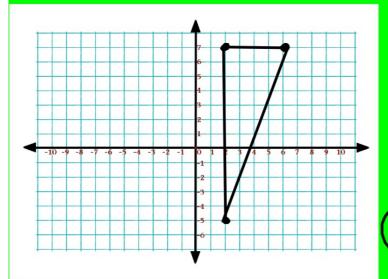
How do you calculate the area of a triangle?

$$A = \frac{1}{2}(3)(4)$$

$$A = 6 \text{ units}^2$$

Area:

Given a triangle with vertices X(2, -5) Y(2, 7) and Z(6, 7). Calculate the area of the triangle.



How do you calculate the area of a triangle?

$$A = \frac{1}{2}bh$$

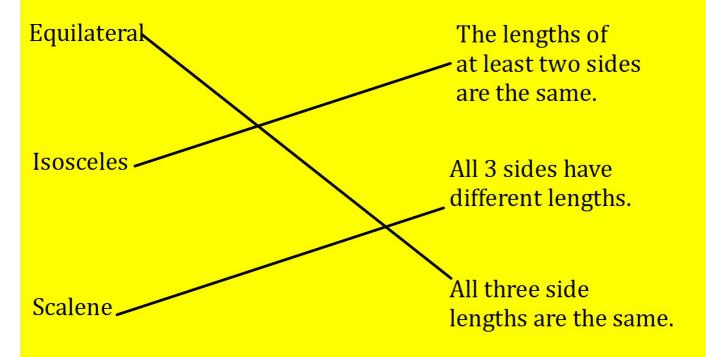
$$A = \frac{1}{2}(4)(12)$$

$$A = 24 \text{ units}^2$$

Classifying Triangles:

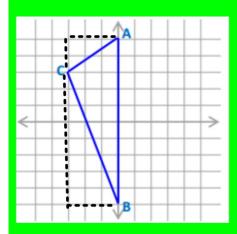
Triangles can be classified by their side lengths.

Match each triangle to the appropriate description.



Remember: LENGTH = DISTANCE

Use the side lengths to prove that triangle ABC is scalene.



length
$$AB = 10$$

length BC =
$$8^{3} + 3^{3} = c^{3}$$

 $C = 8.5 + 3^{3}$

length CA =
$$3^{2} + 3^{2} = c^{2}$$

 $3 = c^{2}$
 $c = \sqrt{13}$
 $c = 3.61$

Given triangle ABC, classify it has equilateral, isosceles, or scalene.

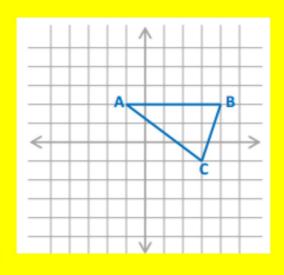
length AB =
$$5$$

length BC =
$$1^{3} + 3^{3} = 0^{3}$$

 $10 = 0^{3}$
3.16

length CA =
$$3^{3} + 4^{3} = c^{3}$$

 $\sqrt{35} = \sqrt{6}$
C= 5



C=5
Triangle ABC is isoscelese because the lengths of two sides are the same.

Exit Ticket

Given a triangle with vertices A(0,6), B(3,6), and C(3,0).

- 1.) Calculate the perimeter.
- 2.) Calculate the area.
- 3.) Use the lengths of each side to determine whether the triangle is equilateral, scalene, or isosceles.