Math 1

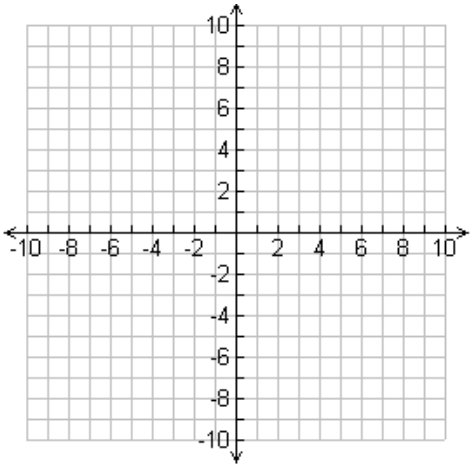
Coordinate Geometry

SWBAT apply geometric shapes to the coordinate plane.

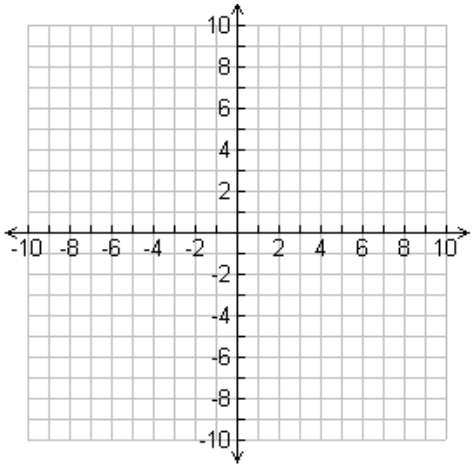
Geometric Shapes

1. A quadrilateral has vertices located at (-3, -5), (4, 2), (4, 1), and (2, -1). Which of the following best describes the figure?

   a) Rhombus
   b) Rectangle
   c) Trapezoid
   d) Square

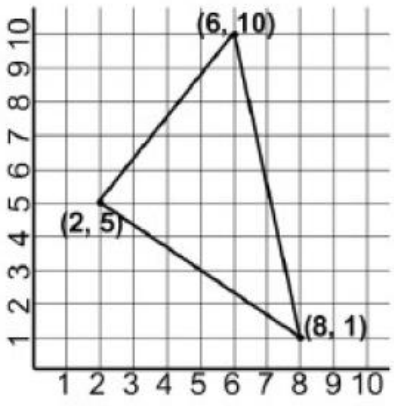


2. A quadrilateral has vertices at (-8, 0), (-4, -4), (0, 8) and (4, 4). What is the area of the quadrilateral?

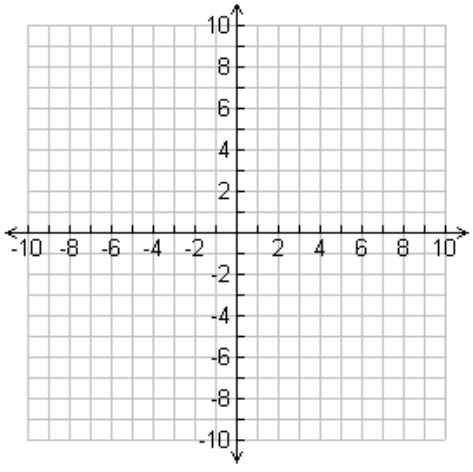


3 Which term best describes the triangle shown?

   a. Equilateral
   b. Right
   c. Scalene
   d. Isosceles



4 A triangle has vertices of (1, 2), (3, 1), and -2, -1). What is the perimeter of the triangle, rounded to the nearest unit?



Math 1

Geometry Application

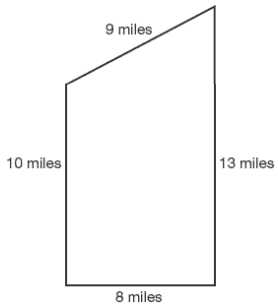
SWBAT apply geometric formulas to solve real-life application problems.

Area Formulas:		Volume Formulas:	
Circle		**Rectangular Prism (box)**	
Square		**Cylinder (can)**	
Rectangle		**Cone**	
Triangle		**Sphere (ball)**	
Trapezoid			

1. The volume of a sphere is 1,600 cubic centimeters. What is the approximate length of the diameter? (Volume of a sphere = $\frac{4}{3}\pi r^3$.

2. Stuckeyburg is a small town in rural America. Use the map to approximate the area of the town.

   a. 40 miles^2
   b. 104 miles^2
   c. 93.5 miles^2
   d. 92 miles^2



3. The volume of a cone can be found using the formula $V = \frac{1}{3}Bh$, where B is the area of the base of the cone and h is the height. A cone has a volume of 262 cubic inches and a height of 10 inches. What is the approximate length of the radius of the cone rounded to the nearest inch?