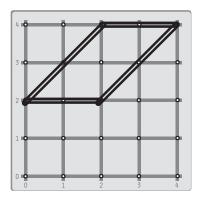
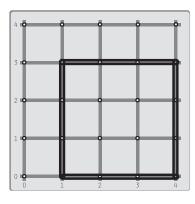
Use a Geoboard to model each parallelogram. Find its area.

1.



_ square units

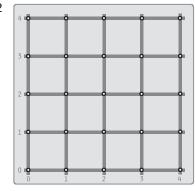
2.



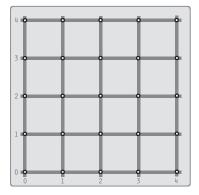
square units

Using a Geoboard, model a parallelogram with the given area. Sketch the shape.

3. 16 units²

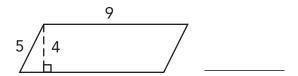


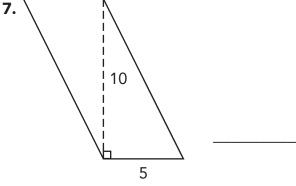
4. 12 units²



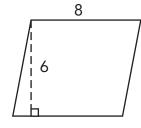
Find the area of each parallelogram.

5.





6.



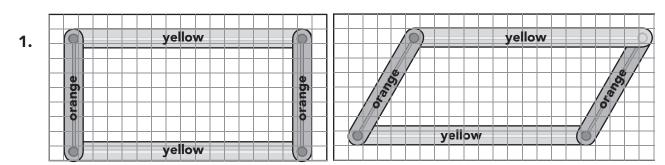
8.





Name
Challenge! How is finding the area of a parallelogram different from finding the area of a rectangle? How is it similar? Draw a picture to help.

Use AngLegs® and grid paper to model the shapes shown. Find the perimeter of each shape. Find the area of each shape.



Perimeter of rectangle _____ units

Perimeter of parallelogram _____ units Area of rectangle _____sq units Area of parallelogram ____sq units

Using AngLegs and grid paper, model two shapes that have the given perimeter, but different areas. Name the area of each shape.

2. 50 units

Figure 1

Figure 2

Area of Figure 1

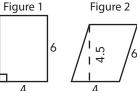
Area of Figure 2

Find the perimeter and area of each figure.

3.



4.



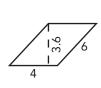
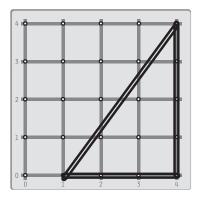


Figure 3

Name
Challenge! How can a rectangle with side lengths of 6 and 10 have a different area than a parallelogram with side lengths of 6 and 10? What do you know about their perimeters? Draw a picture to help.

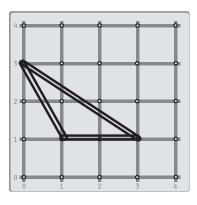
Use a Geoboard to model each triangle. Find its area.

1.



_ square units

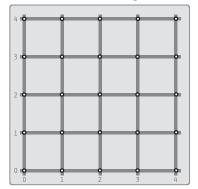
2.



_____ square units

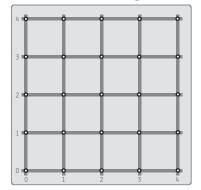
Using a Geoboard, model each triangle. Sketch the model. Find its area.

base: 4 units, height: 2 units



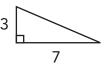
square units

base: 4 units, height: 4 units



square units

Find the area of each triangle.



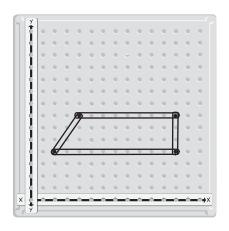
6.

7.

Name	
Challenge! Explain why the formula for the area of a triangle includes the fraction $\frac{1}{2}$. Draw a picture.	
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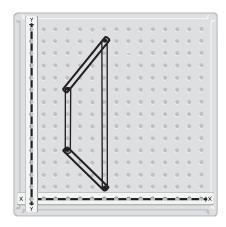
Use an XY Coordinate Pegboard to model the trapezoids. Divide each trapezoid into two triangles. Find the area of each trapezoid.

1.



Area of triangle _____sq. units Area of triangle _____ sq. units

Area of trapezoid _____ sq. units



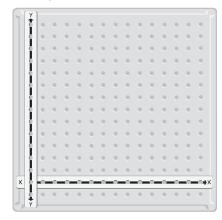
Area of triangle _____sq. units

Area of triangle _____ sq. units

Area of trapezoid _____ sq. units

Using an XY Coordinate Pegboard, model a trapezoid with the given area. Sketch the model. Answer the questions.

3. 64 square units



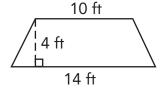
What is the length of the short base? _____

What is the length of the long base? _____

What is the height? _____

Find the area of each trapezoid.

4.



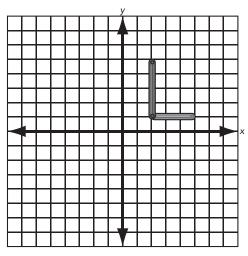
5. bases, 4 in. and 6 in. height, 5 in.

6. bases, 9 cm and 10 cm height, 6 cm

Name	
Challenge! area of two trapezoid. Dr	How is finding the area of a trapezoid related to finding the riangles, each with a base length equal to a base length of the raw a picture to help.

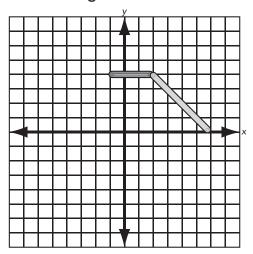
Use AngLegs® and graph paper to model each shape in a coordinate plane. Part of the shape is shown. Name the coordinates of the vertices that complete the shape.

1. rectangle with vertices at (2, 1) and (2, 5)



The other vertices are at

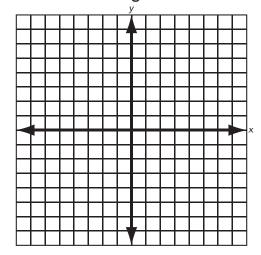
2. isosceles trapezoid with short base 3 units, long base 11 units



The vertices of the long base are

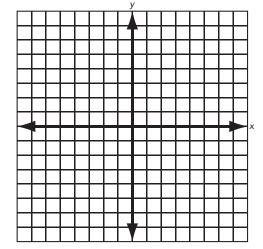
Using AngLegs, model each shape. Sketch the model. Name the vertices.

3. square in the second quadrant that has sides 5 units long



The vertices of the square are

rectangle in the third and fourth quadrants, 7 units by 4 units



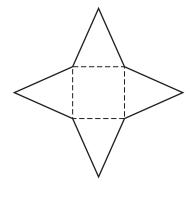
The vertices of the rectangle are

Name	
Challenge! If a rectangle has one vertex at (4, 4) and its opposite vertex is at (–5, –5), in what quadrants is the rectangle? Draw a picture to help.	
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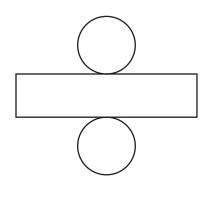


Use Relational GeoSolids to identify the solid for each net that is shown. Name the solid.

1.



2.



Use Relational GeoSolids to help you draw a net for each solid. Sketch the net.

3. cube

4. triangular prism

5. rectangular prism

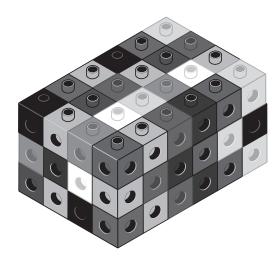
6. hexagonal prism

Name		
Challenge!	How many different nets can you draw for a cube?	
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		3

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Use Snap Cubes to build the rectangular solid. Find the surface area.

1.



area of top surface _____ area of bottom surface____ area of right side surface _____ area of left side surface area of front surface area of back surface

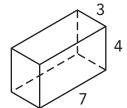
Total surface area

Using Snap Cubes, build the solid with the given dimensions. Sketch the model. Find the surface area.

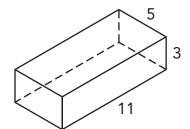
2. length: 5 units, width: 4 units, and height: 5 units

Find the surface area of each rectangular solid.

3.



4.



5. length: 6 units width: 4 units

height: 1 unit

6. length: 9 units width: 2 units

height: 2 units

Name	
Challenge! How many faces does a rectangular solid have? How are these faces used to find the surface area of the solid?	
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