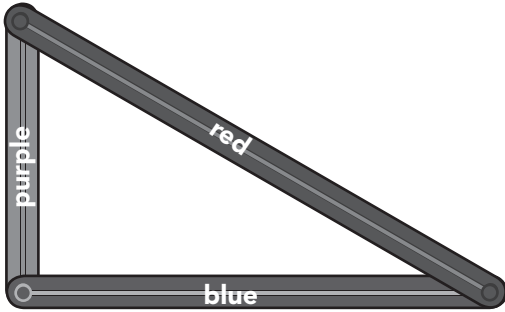
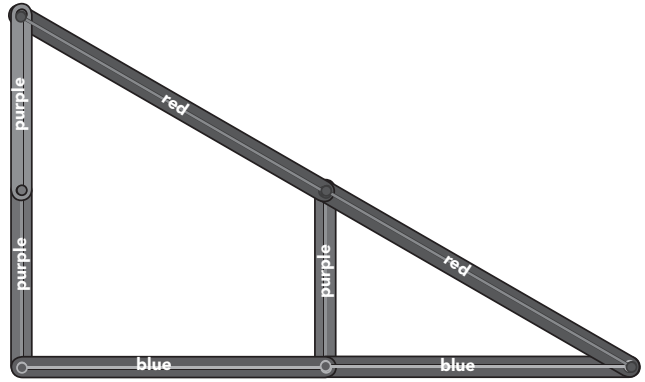


Use AngLegs to model the triangles shown. Write the scale factor for Triangle 2.

1. Original Triangle



Triangle 2



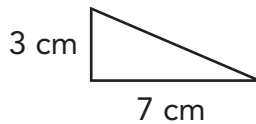
The scale factor of Triangle 2 is _____.

Using AngLegs, build a triangle with the legs named. Then build a triangle with a scale of 3:1. Sketch the models.

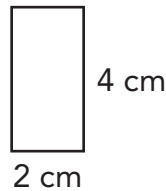
2. orange, yellow, and purple

Draw each figure using the scale factor given.

3. scale factor of 2



4. scale factor of 3



Use the AngLegs shown. Determine whether you can build a triangle.

1.



Can you build a triangle? _____

Using AngLegs, try to make at least one triangle. Draw the triangle(s) or write an explanation if no triangle can be made.

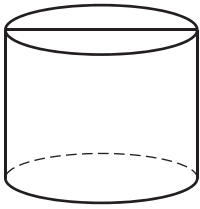
2. Angles: 30° , 60° , 90°

3. Sides: orange, orange, yellow

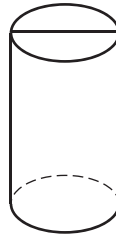
4. Angles: 30° , 30° , 60° 5. Sides: blue, green; Angle between: 45°

Use Relational GeoSolids to model each cylinder. Use a ruler to find the diameter of the base. Find the circumference of the base. Use 3.14 for π .

1.



2.



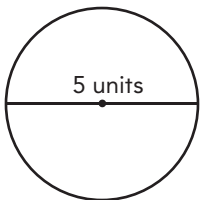
Draw a circle that has each diameter. Find the circumference of the circle. Use 3.14 for π .

3. 3 inches

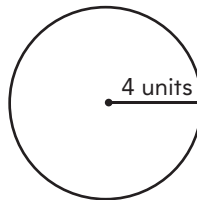
4. 11 centimeters

Find the circumference of each circle. Use 3.14 for π .

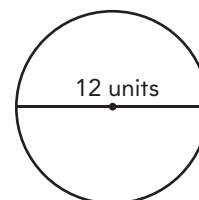
5.



6.

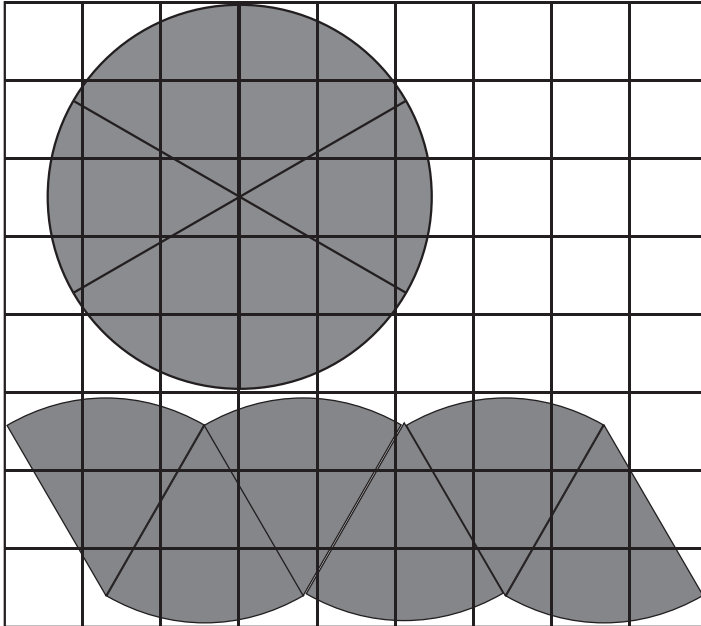


7.



Use Fraction Circles to model the circle. Use a Centimeter Grid to find the area of the circle.

1.



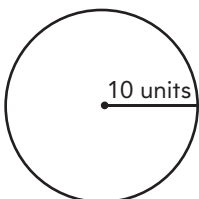
Draw each circle described. Find the area of the circle. Use 3.14 for π .

2. 8-cm radius

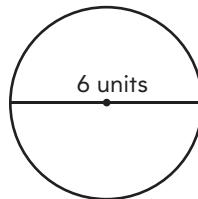
3. 2-inch diameter

Find the area of each circle. Use 3.14 for π .

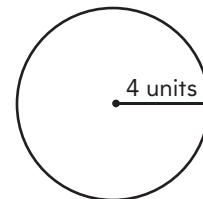
4.



5.

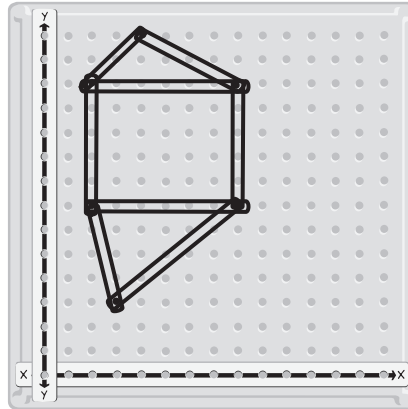
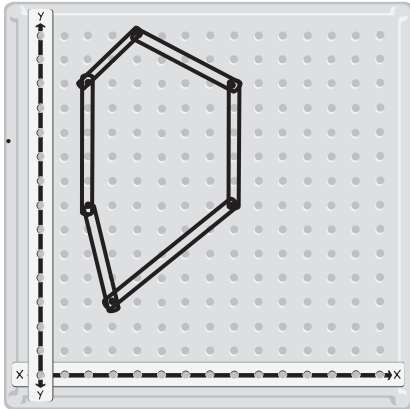


6.



Use an XY Coordinate Pegboard to model the irregular figure. Divide the shape into triangles and a rectangle. Find the area of the irregular figure.

1.



Area

triangle _____ sq units

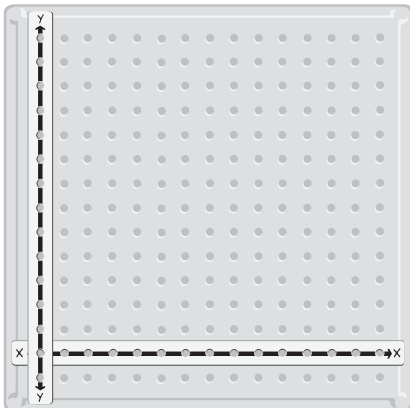
rectangle _____ sq units

triangle _____ sq units

Area of figure _____ sq units

Using an XY Coordinate Pegboard, model an irregular figure. Sketch the model. Find the area of the irregular figure.

2.

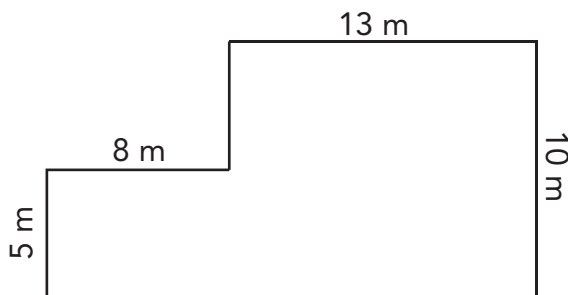


Find the areas of the shapes into which you can divide your figure.

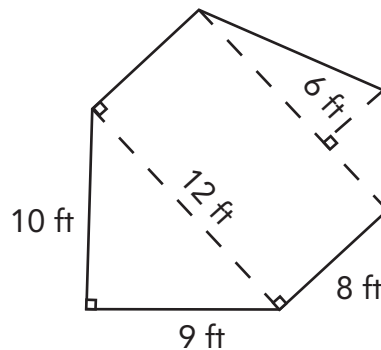
Area of figure _____ sq units

Find the area of each figure.

3.

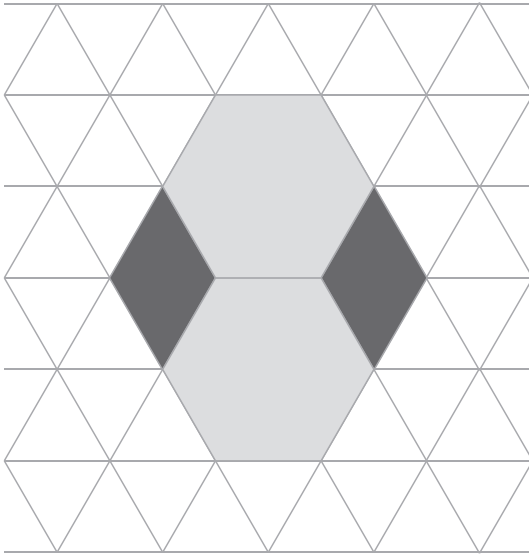


4.



Use Pattern Blocks and 1-inch Triangular Grid Paper to build each figure shown. Find the number of triangles covered. Write the area of the figure in triangular units.

1.

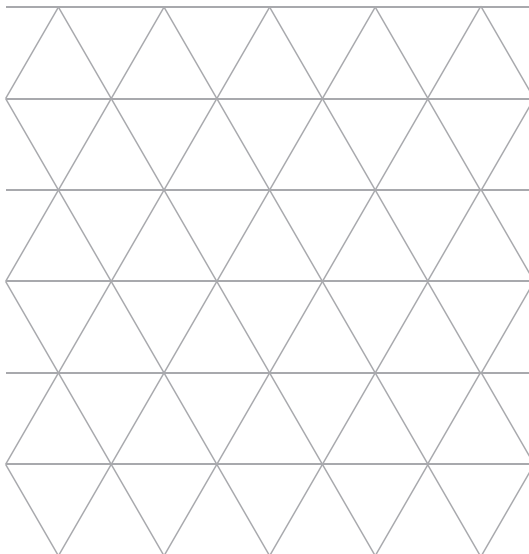


2.



Using Pattern Blocks and 1-inch Triangular Grid Paper, build a quadrilateral that has each area given. Sketch the model.

3. 20 triangular units



4. 30 triangular units

