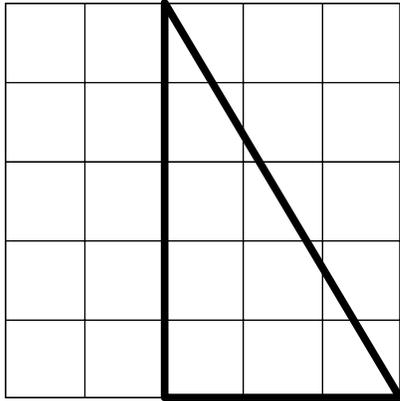


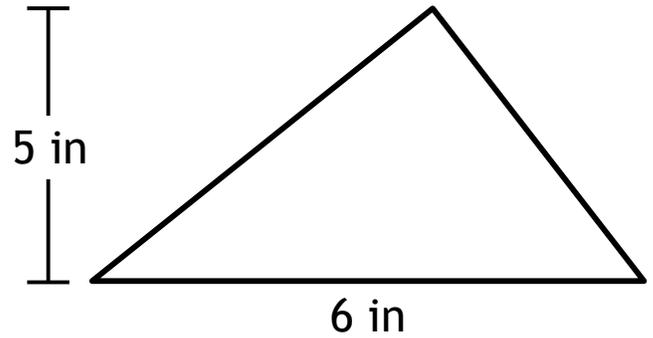
Name: _____

6.G.1

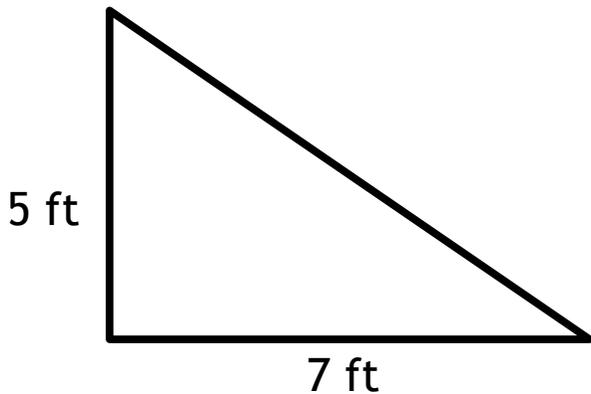
Find the area of
the triangle. _____



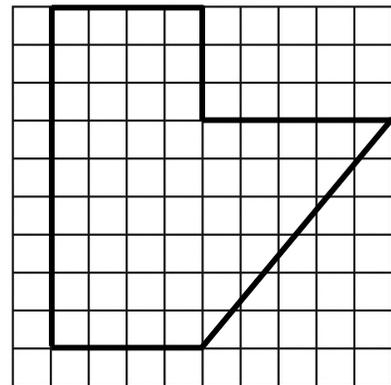
Find the area of
the triangle. _____



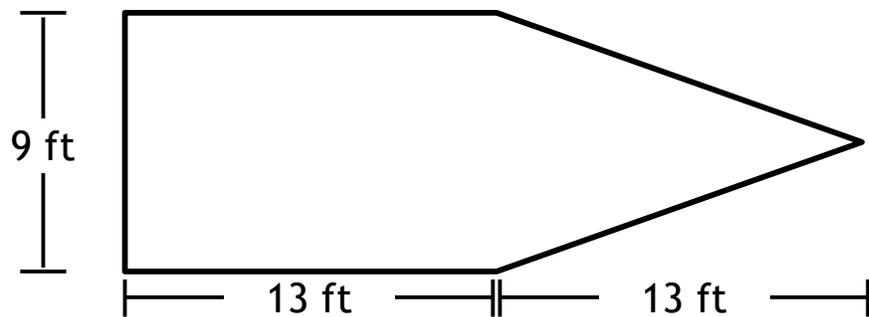
Find the area of
the triangle. _____



Find the area of
the polygon. _____



Find the area of the pentagon. _____



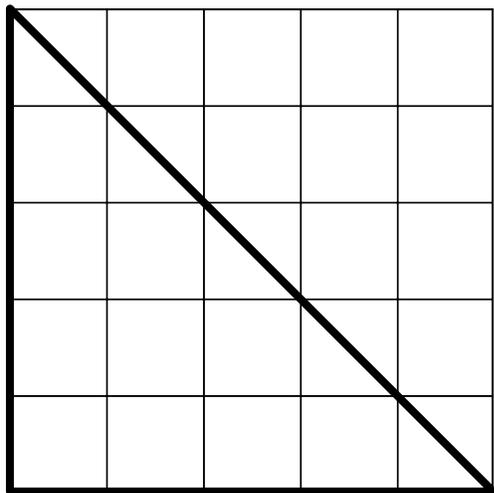
Name: _____

6.G.1

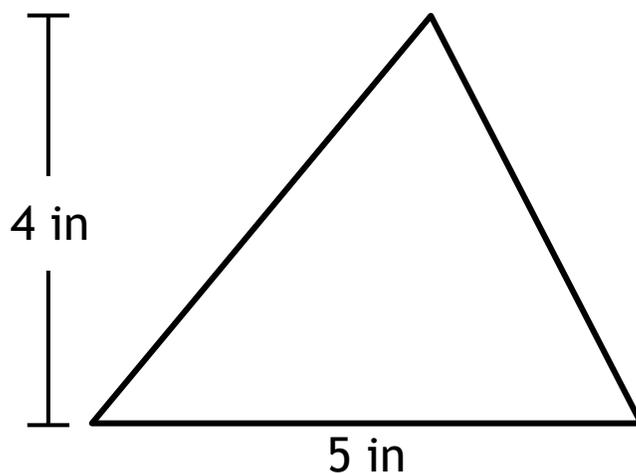
Areas: Compose, Decompose, and Real-World

Directions: Solve each problem.

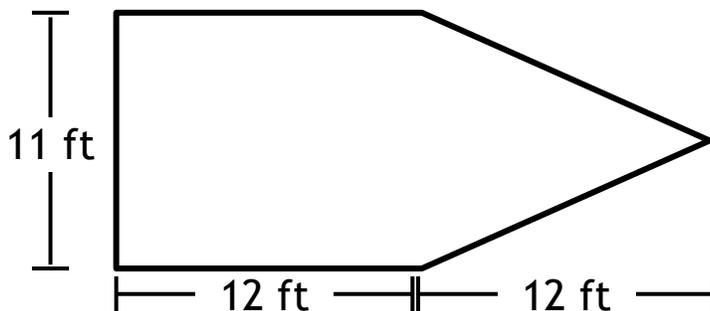
1. Find the area of the triangle. _____



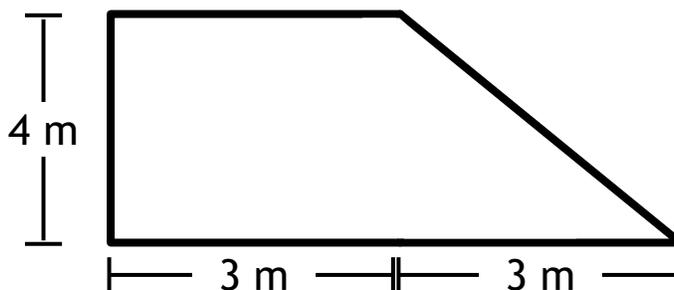
2. Find the area of the triangle. _____



3. Find the area of the pentagon. _____



4. Find the area of the right trapezoid. _____



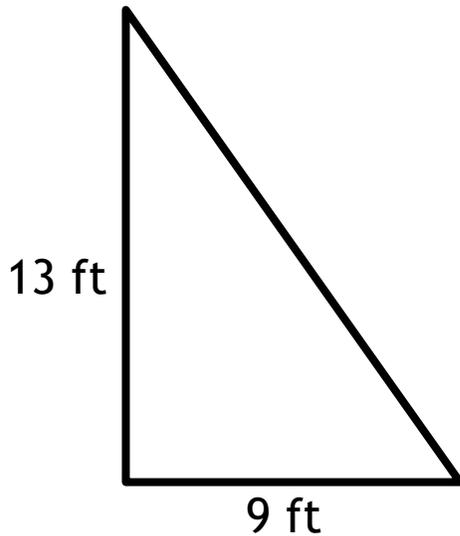
Name: _____

6.G.1

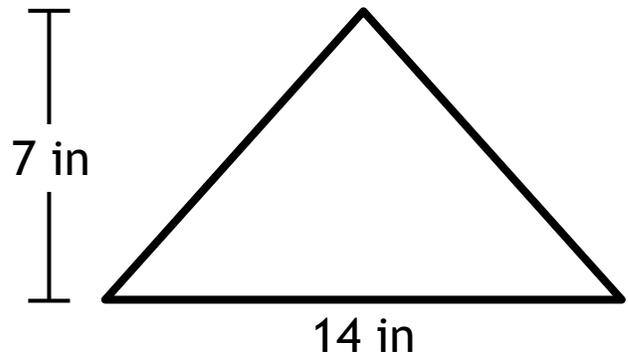
Areas: Compose, Decompose, and Real-World

Directions: Solve each problem.

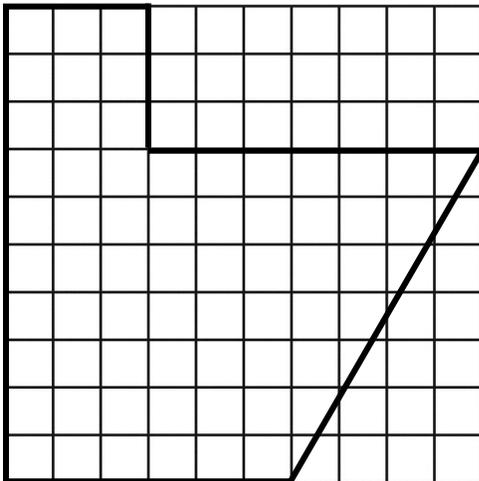
1. Find the area of the triangle. _____



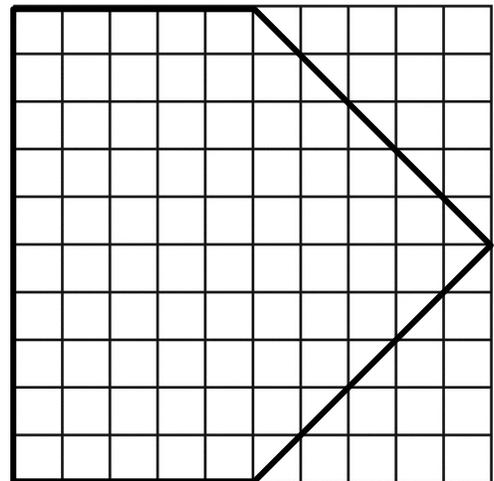
2. Find the area of the triangle. _____



3. Find the area of the polygon. _____



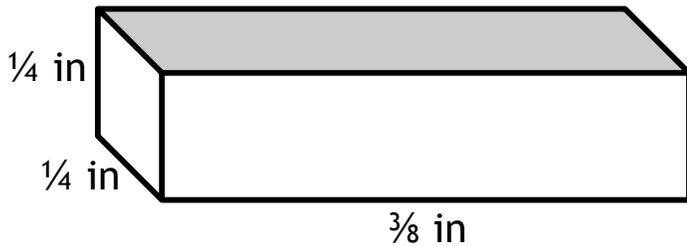
4. Find the area of the pentagon. _____



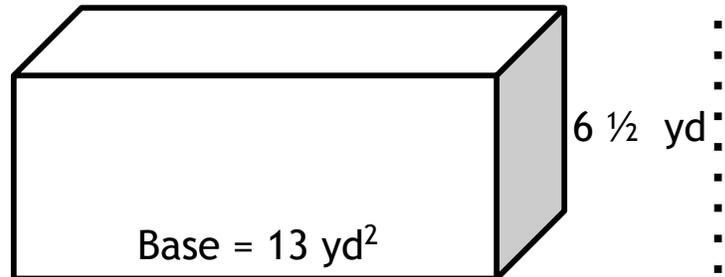
Name: _____

6.G.2

Find the volume.



Find the volume.



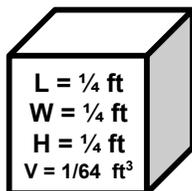
Solve the word problem correctly.

A cooler is in the shape of a right rectangular prism. If the cooler is 3 $\frac{1}{2}$ feet long, 2 $\frac{5}{8}$ feet wide, and 1 foot deep, what is the volume of the cooler?

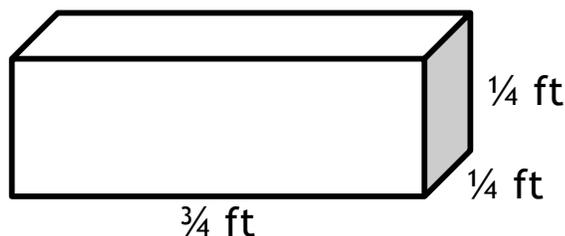
Solve the word problem correctly.

A cardboard box has edges of length 2 $\frac{3}{8}$ in, 6 $\frac{1}{2}$ in, and 3 in. What is the volume of the box?

Fill the rectangular prism with cubes to find the volume.



Volume = _____



Name: _____

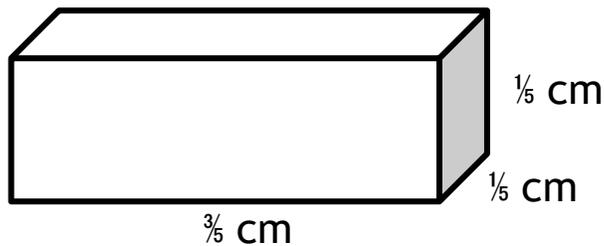
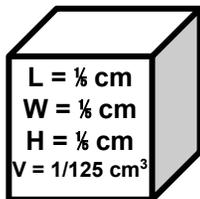
6.G.2

Volumes of Right Rectangular Prisms

Directions: Solve each problem.

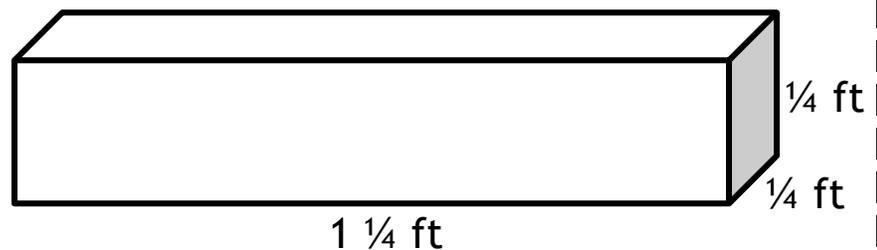
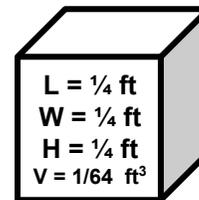
1. Fill the rectangular prism with cubes to find the volume.

Volume = _____



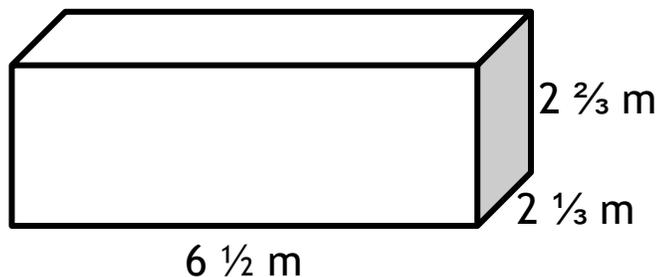
2. Fill the rectangular prism with cubes to find the volume.

Volume = _____



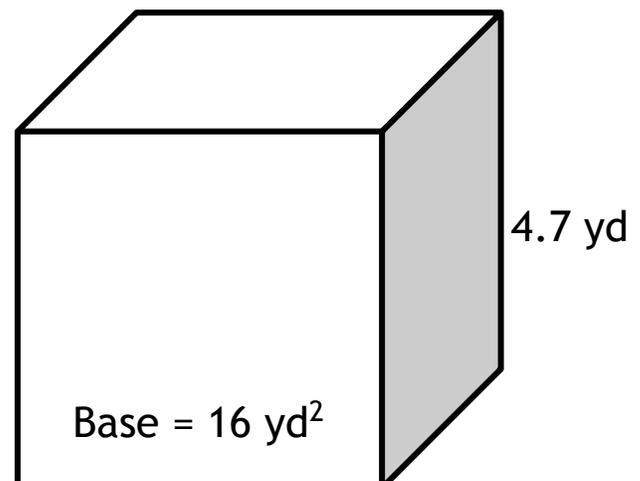
3. Find the volume.

Volume = _____



4. Find the volume.

Volume = _____



Name:

6.G.2

Volumes of Right Rectangular Prisms

Directions: Solve each problem.

1. A swimming pool is in the shape of a right rectangular prism. If the pool is $12\frac{3}{4}$ yards long, $5\frac{2}{3}$ yards wide, and 9 yards deep, what is the volume of the swimming pool?

2. A cardboard box has edges of length 5.5 in, 3.2 in, and 7.25 in. What is the volume of the box?

3. The base of a rectangular prism has an area of 26.25 inches^2 , and the height of the prism is 4.5 inches. What is the volume of the prism?

4. The base of a rectangular prism has an area of $13\frac{2}{3}\text{ meters}^2$, and the height of the prism is $8\frac{5}{6}$ meters. What is the volume of the prism?

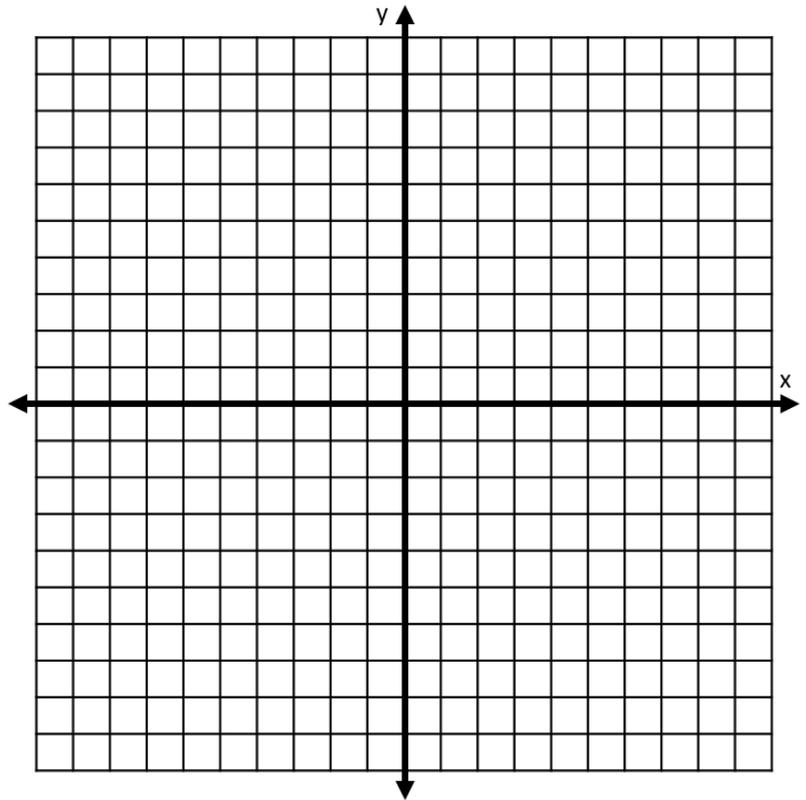
Name: _____

6.G.3

- Draw the quadrilateral ABCD whose vertices are $A(-2, -5)$, $B(5, -5)$, $C(5, 6)$, $D(-2, 5)$.

- What is the length of the side between points A and B?

- What is the length of the side between points B and C?

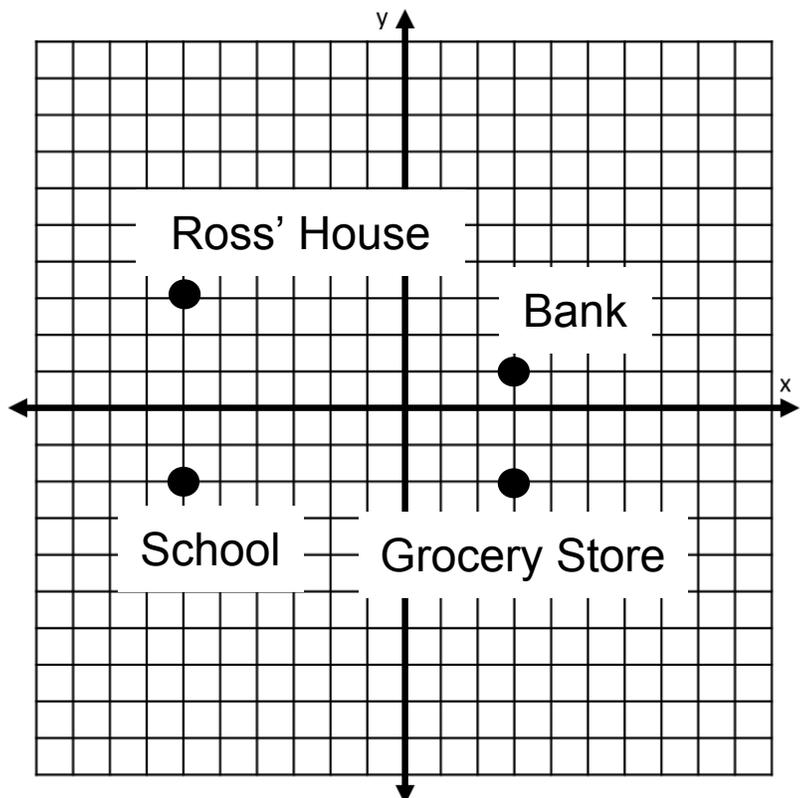


Solve each problem.

- Ross likes to bike around his neighborhood. Each unit on the graph equals 1 mile.

- What is the distance between the between Ross' house and the school? _____

- What is the the distance between the school and the grocery store?



Name: _____

6.G.3

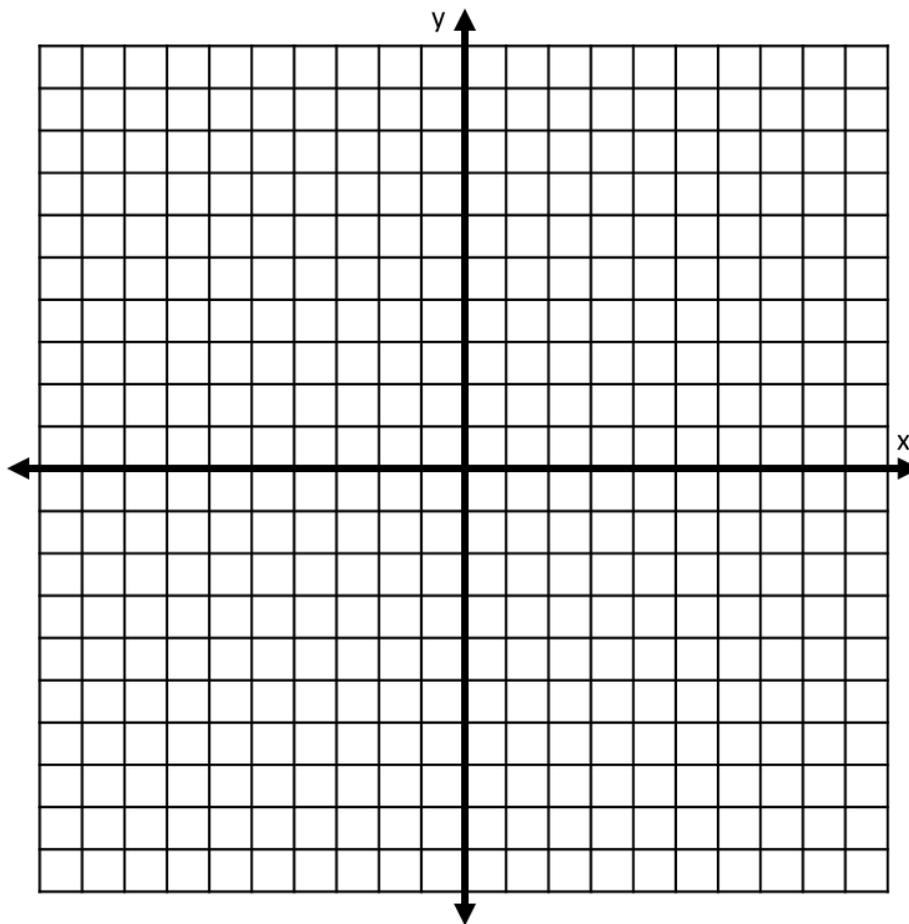
Polygons and Distances in the Coordinate Plane

Directions: Solve each problem.

1. Draw the quadrilateral ABCD whose vertices are $A(-8, -5)$, $B(8, -5)$, $C(2, 5)$, $D(-2, 5)$.

What is the length of the side between points A and B? _____

What is the length of the side between points C and D? _____



2. The quadrilateral ABCD has the vertices $A(-10, -9)$, $B(9, -9)$, $C(6, 3)$, $D(-7, 3)$.

What is the length of the side between points A and B? _____

What is the length of the side between points C and D? _____

Name: _____

6.G.3

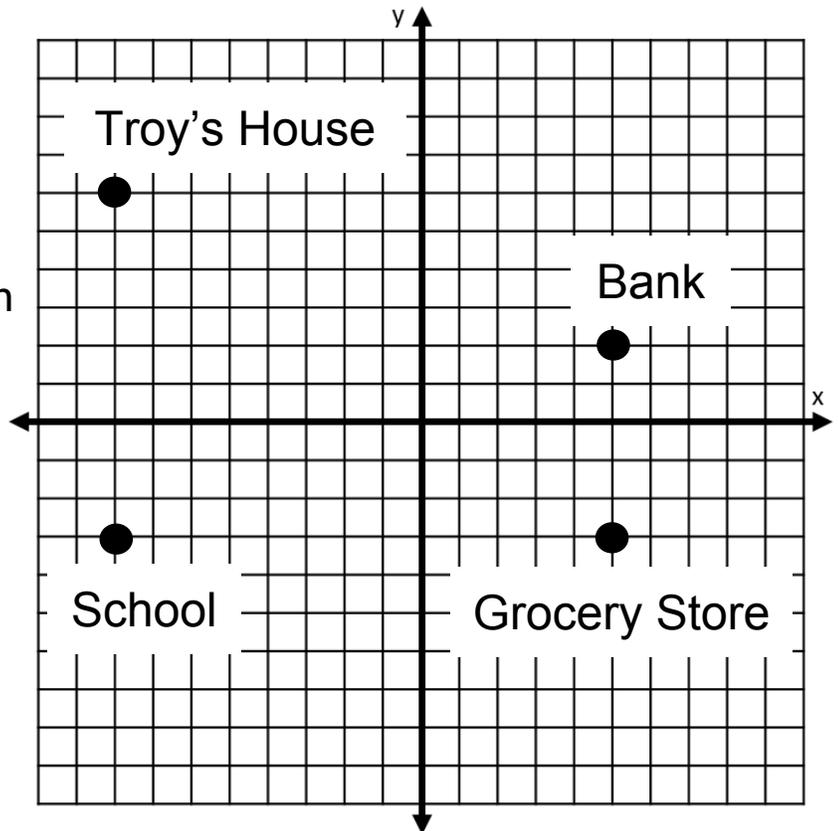
Polygons and Distances in the Coordinate Plane

Directions: Solve each problem.

1. Troy likes to bike around his neighborhood. Each unit on the graph equals 1 mile.

What is the distance between the between Troy's house and the school? _____

What is the the distance between the school and the grocery store? _____



2. The triangle ABC has the vertices $A(5, -6)$, $B(5, 7)$, $C(-7, 7)$.

What is the length of the side between points A and B? _____

What is the length of the side between points B and C? _____

3. The polygon ABCDE has the vertices $A(-6, -1)$, $B(6, -1)$, $C(9, 2)$, $D(6, 5)$, $E(-6, 5)$.

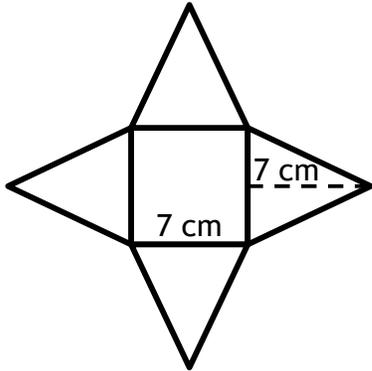
What is the length of the side between points A and B? _____

What is the length of the side between points A and E? _____

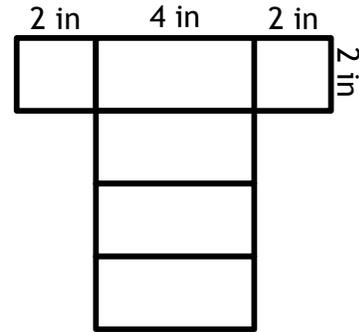
Name: _____

6.G.4

Find the surface area of the square-based pyramid using the net. _____



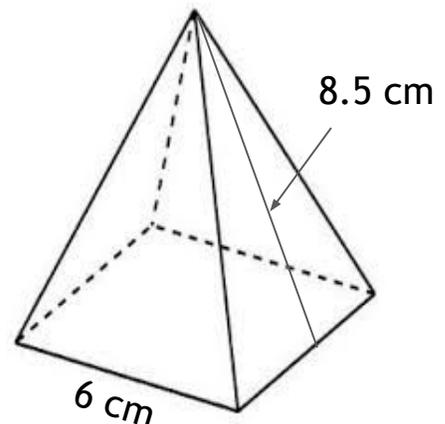
Find the surface area of the rectangular prism using the net. _____



Earl wants to paint all sides of a cube, but he first needs to know its surface area. The cube has sides 9 feet long. What is its surface area?

Alvin's wrapping service wraps Christmas presents and charges \$0.01 per square inch of the package. Theodore wants to pay Alvin to wrap a package for Simon. It is a box 11 inches long, 4 inches wide, and 2 inches tall. How much will Alvin charge Theodore to wrap it?

Pete received a trophy at the state math competition. His trophy is in the shape of a square pyramid and is covered in wrapping paper. What is the minimum amount of wrapping paper needed to wrap his trophy?



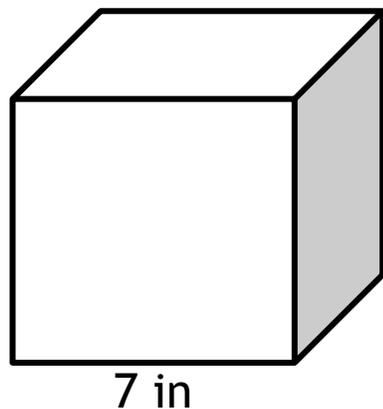
Name: _____

6.G.4

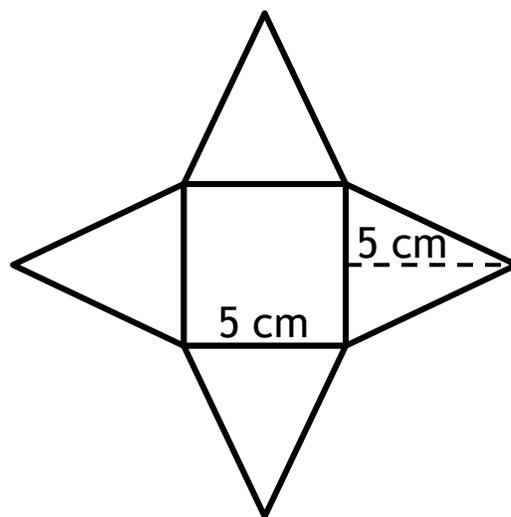
Surface Areas using Nets

Directions: Solve each problem.

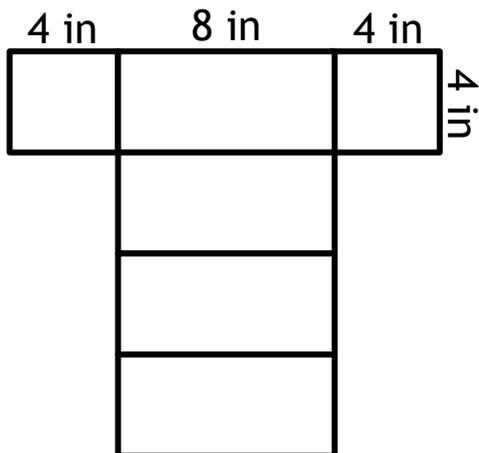
1. Find the surface area of a cube with 7-inch sides.



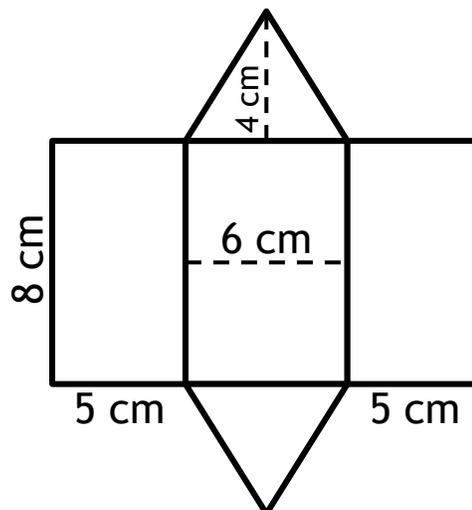
2. Find the surface area of the square-based pyramid using the net.



3. Find the surface area of the rectangular prism using the net.



4. Find the surface area of the triangular prism using the net.



Name:

6.G.4

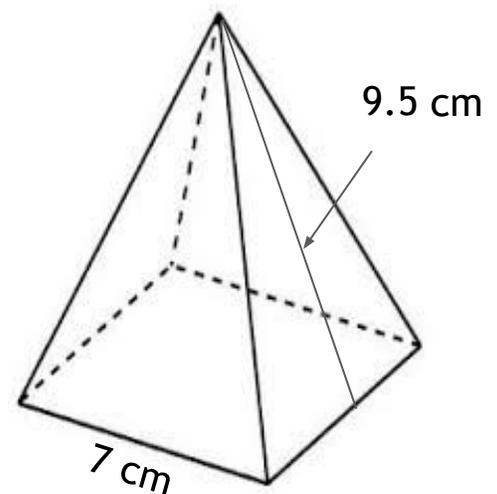
Surface Areas using Nets

Directions: Solve each problem.

1. Betty bought a gift for her friend. She placed the gift in a box with the length of 9 inches, width of 13 inches, and height of 8 inches. What is the surface area of the box?

2. Olivia bakes a rectangular cake that is $7\frac{1}{2}$ inches wide, 12 inches long and $2\frac{1}{4}$ inches high. If Judy frosts each side of the cake, what is the surface area of the cake she needs to frost?

3. Hank received a trophy at the state math competition. His trophy is in the shape of a square pyramid and is covered in wrapping paper. What is the minimum amount of wrapping paper needed to wrap his trophy?

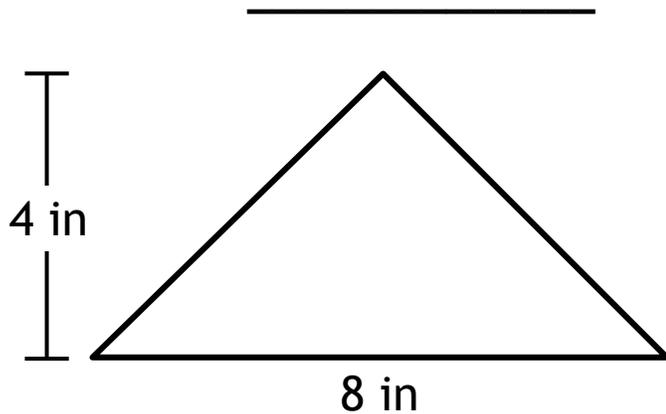


Name: _____

G Test

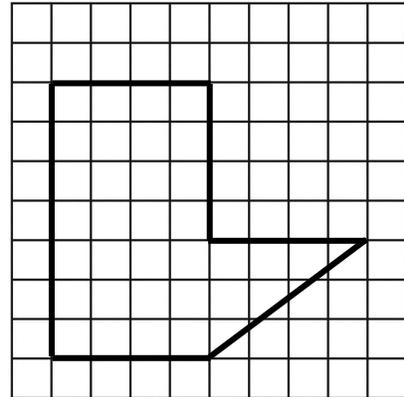
6.G.1

Find the area of the triangle.



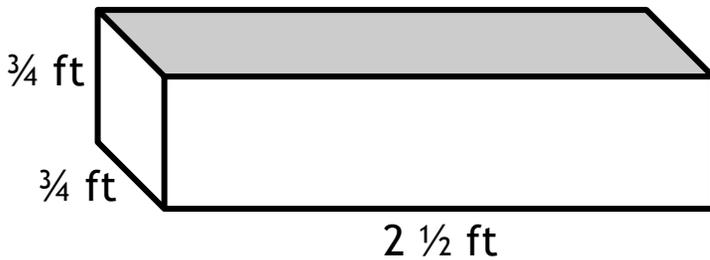
6.G.1

Find the area of the polygon.



6.G.2

Find the volume.

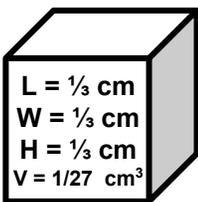


6.G.2

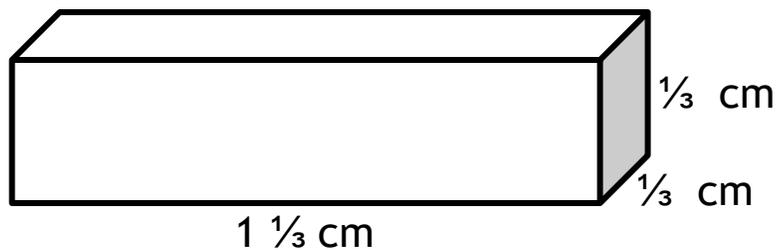
A cardboard box has a base of $4\frac{1}{5}$ inches and a height of $6\frac{1}{2}$ inches. What is the volume of the box?

6.G.2

Fill the rectangular prism with cubes to find the volume.



Volume = _____



Name: _____

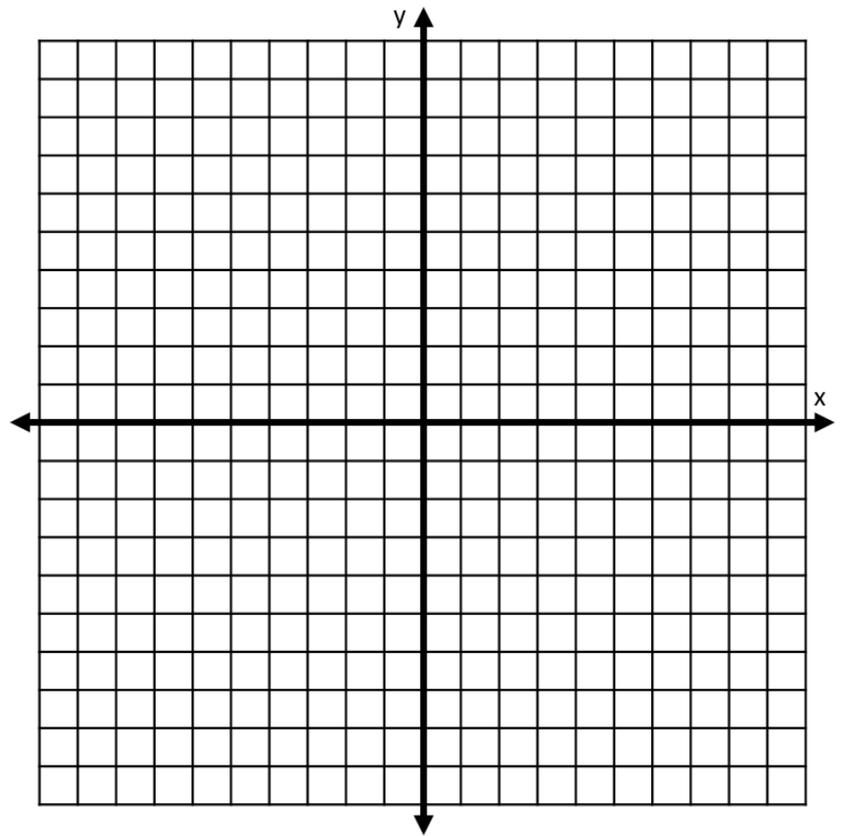
G Test

6.G.3

Draw the quadrilateral ABCD whose vertices are $A(-4, -4)$, $B(8, -4)$, $C(5, 5)$, $D(-1, 5)$.

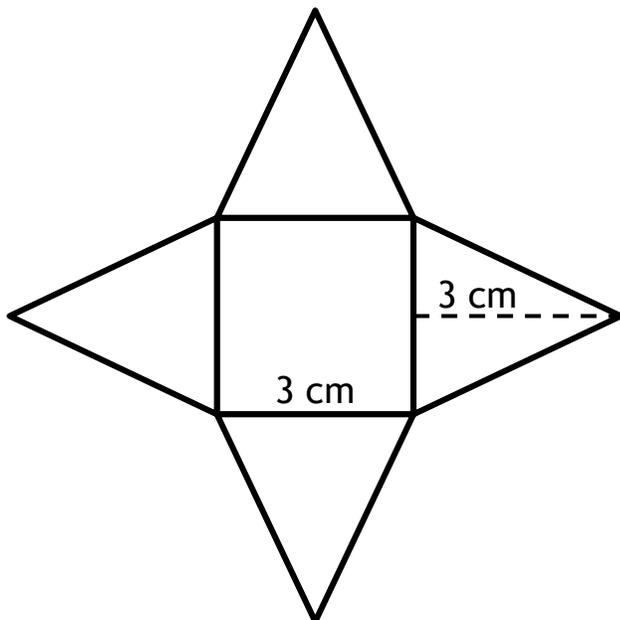
What is the length of the side between points A and B?

What is the length of the side between points C and D?



6.G.4

Find the surface area of the square-based pyramid using the net. _____



6.G.4

Alvin's wrapping service wraps Christmas presents and charges \$0.01 per square inch of the package. Theodore wants to pay Alvin to wrap a package for Simon. It is a box 12 inches long, 5 inches wide, and 3 inches tall. How much will Alvin charge Theodore to wrap it?
