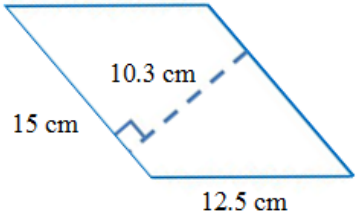
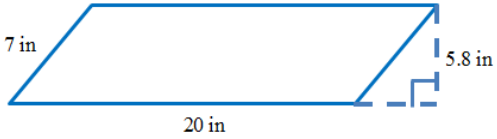
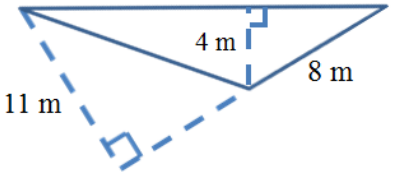
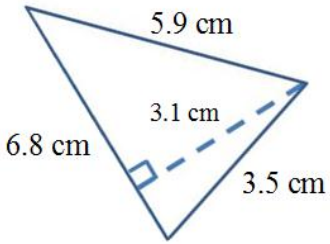
Unit E Geometry
Unit Review Packet

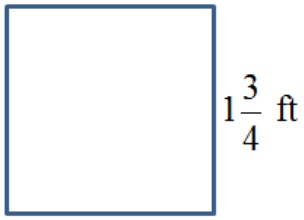
Name _____

Directions: Do ALL (A) Questions. Check Your Answers to (A) Questions. If ALL (A) Questions are correct, skip (B) Questions and move onto next "I can" statement. If you get any (A) Questions wrong, MAKE CORRECTIONS and do ALL (B) Questions.

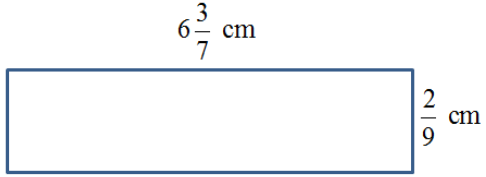
"I Can Find the Area of Squares, Rectangles, Parallelograms, Triangles, and Trapezoids using the Appropriate Formula."

A1: Find the area of the Parallelogram.  	**B**1: Find the area of the Parallelogram. 
A2: Find the area of the Triangle.  	**B**2: Find the area of the Triangle. 

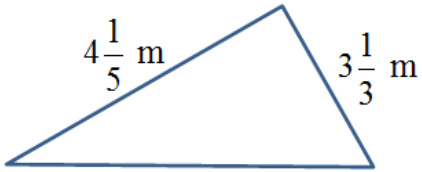
A3: Find the Area of the Square.



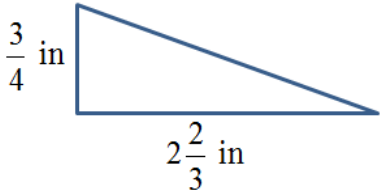
B3: Find the Area of the Rectangle.



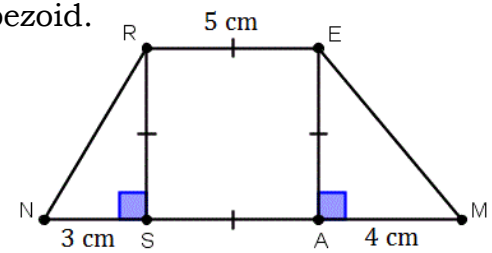
A4: Find the Area of the Right Triangle.



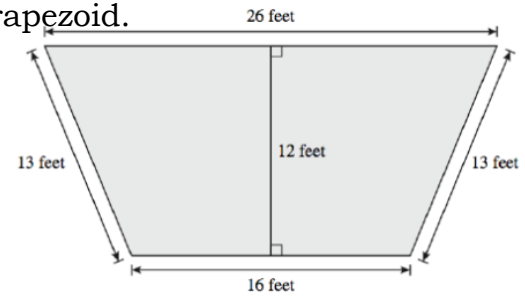
B4: Find the Area of the Right Triangle.



A5: Find the Area of the Trapezoid.



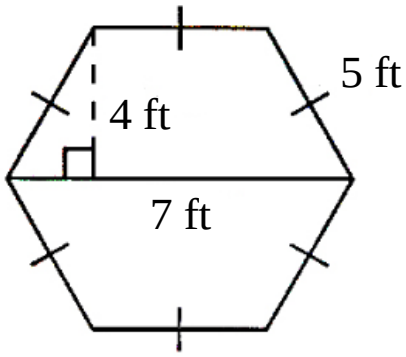
B5: Find the Area of the Trapezoid.



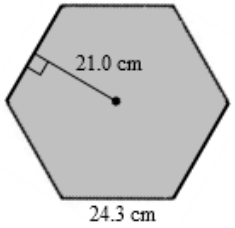
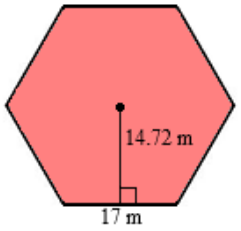
A6: A farmer fenced in an area of his farm that is a rectangle in shape. The length of the fence is $\frac{3}{5}$ mile. The area enclosed by the fence is $\frac{1}{2}$ square mile. What is the width of the farmer's fence?

B6: The area of a parallogram is 24 cm^2. The height measures $4\frac{4}{5}$ cm. What is the measure of the base?

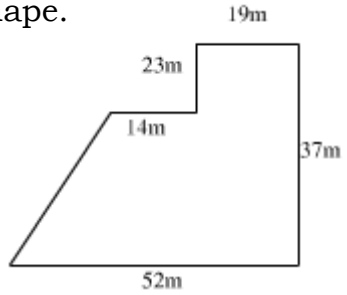
A7: A table top consisting of two trapezoids joined together is shown below. Jerry wants to cover the table top with a tablecloth. If the tablecloth costs $0.45 per square foot, how much will the tablecloth cost to cover the table?



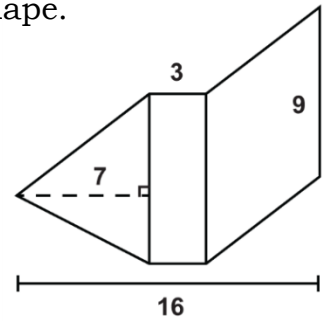
"I Can Find the Area of Regular and Irregular Figures by Decomposing them into Rectangles and Triangles."

A1: Find the Area of the Hexagon. 	**B**1: Find the Area of the Hexagon. 

A2: Find the Area of the Irregular Shape.

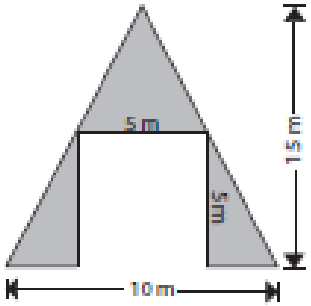


B2: Find the Area of the Irregular Shape.

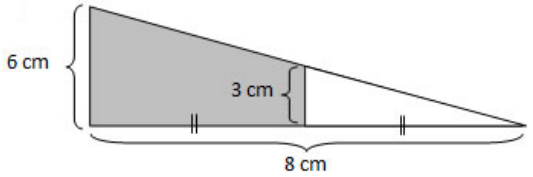


"I Can Find the Area of the Shaded Region by Subtracting the Smaller Area from the Larger Area."

A1: Find the Area of the Shaded Region.



B1: Find the Area of the Shaded Region.



"I Can Draw Polygons in the Coordinate Plane and Use Various Strategies to Calculate the Area of the Polygon and Determine the Lengths of the Sides to Find the Perimeter of the Polygon."

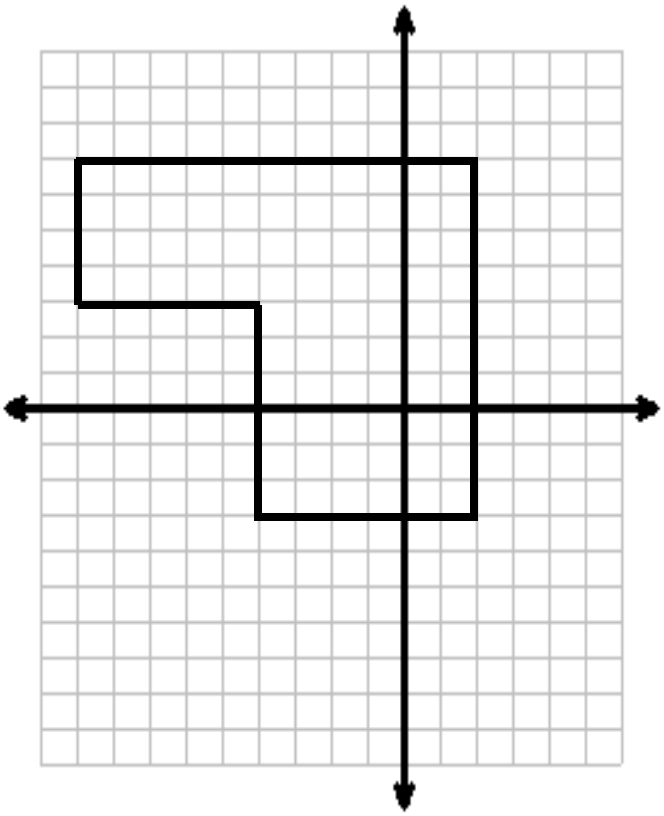
A1:

Area: _____ units^2

Perimeter: _____ units

If the polygon represents the shape of a park and each unit represents 15 meters, what is the perimeter of the park?

_____ meters



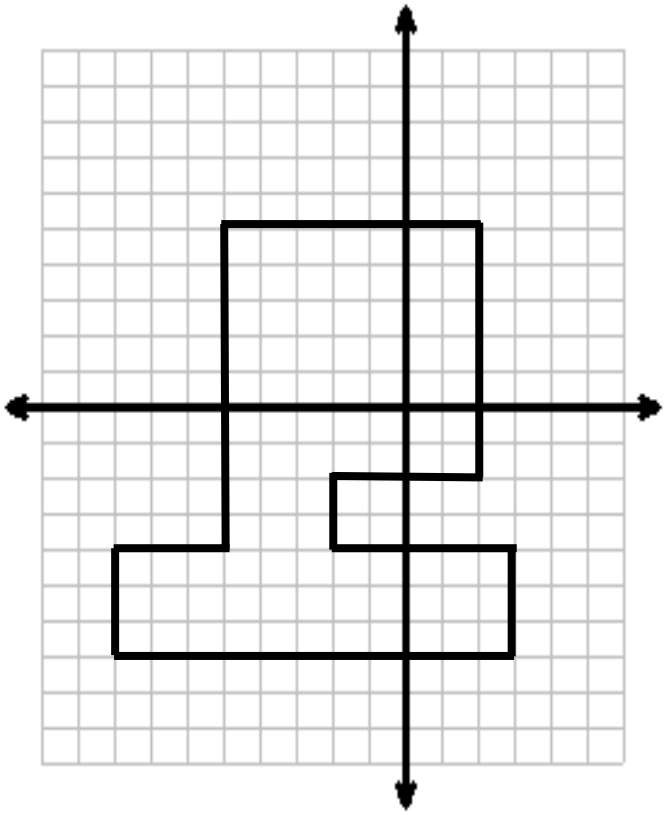
B1:

Area: _____ units^2

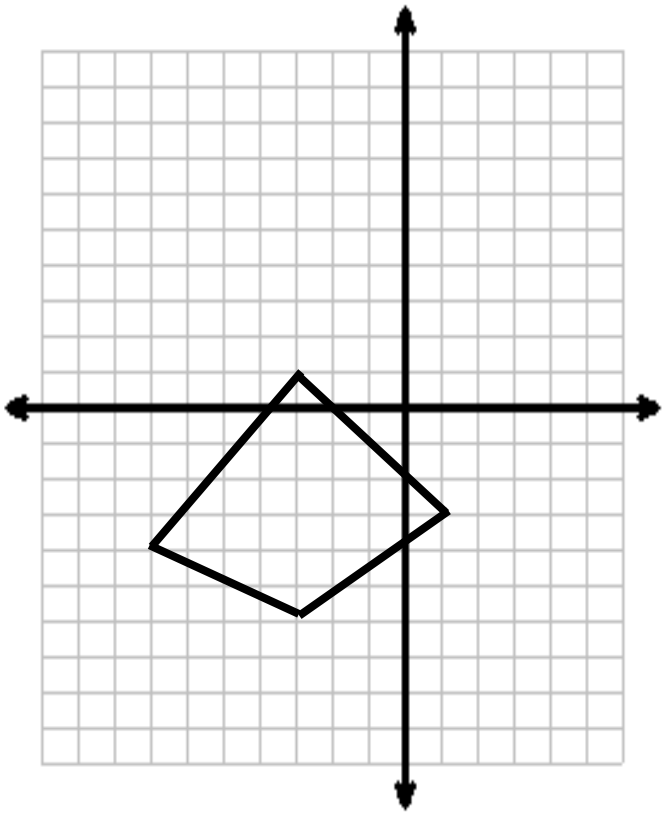
Perimeter: _____ units

Bill plans to build a pool in the following shape. If each unit represents 2 feet, what would be the perimeter of the pool?

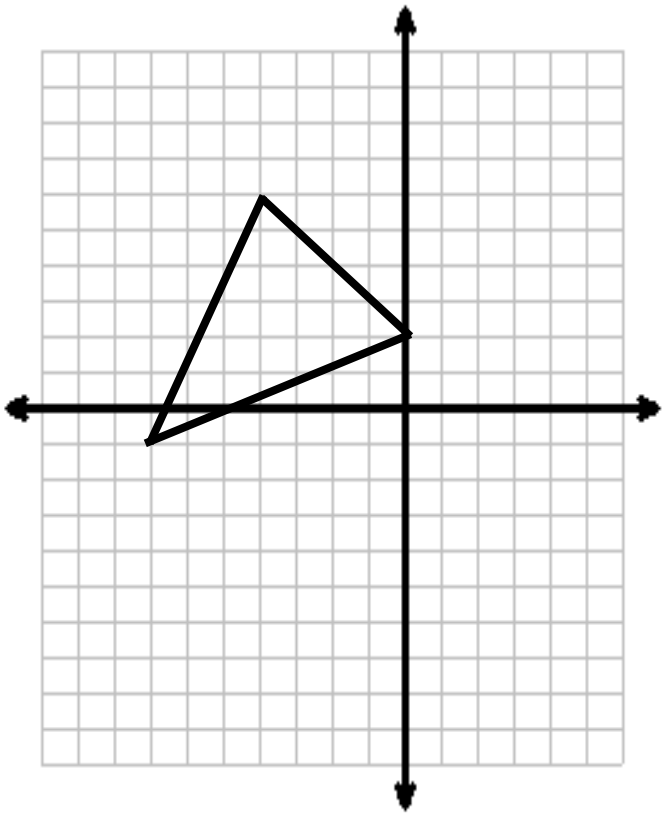
_____ feet



A2: Find the Area of the Polygon.

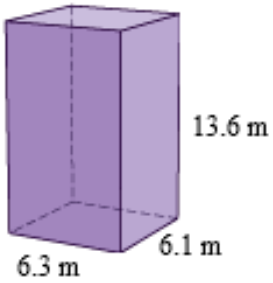


B2: Find the Area of the Triangle.

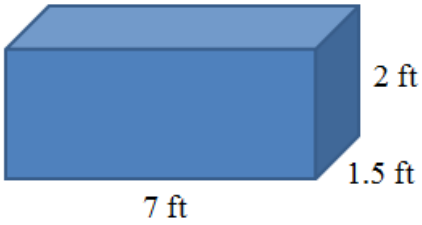


"I Can Find the Volume of a Right Rectangular Prism by Applying the Appropriate Formula."

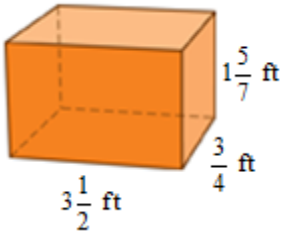
A1: Find the Volume of the Right Rectangular Prism.
Round to the *nearest tenth*.



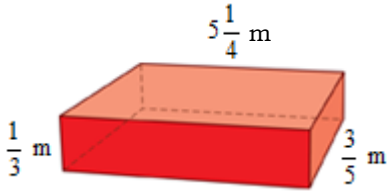
B1: Find the Volume of the Right Rectangular Prism.

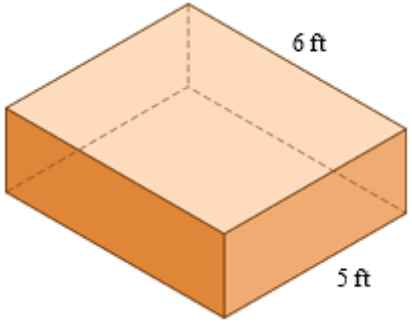


A2: Find the Volume of the Right Rectangular Prism.



B2: Find the Volume of the Right Rectangular Prism.



A3: The Volume of the Right Rectangular Prism below is 187.2 ft^3. Find the height of the prism.  	**B**3: The Volume of a Right Rectangular Prism is $\frac{1}{9}$ cm^3. If the length is $\frac{1}{3}$ cm and the height is $\frac{2}{3}$ cm, what is width of the prism?
A4: Find the Volume of a Cube if the area of the base is 36 cm^2.	**B**4: Find the Volume of a Right Rectangular Prism that has a base with an area of $4\frac{2}{3}$ in^2 and a height of $\frac{3}{4}$ in.

"I Can Identify Faces, Edges, and Vertices of 3D Figures."
"I Can Represent a 3D Figure with a Net."

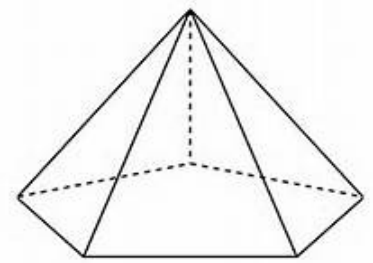
A1: Find the Number…

Pentagonal Pyramid

Of Faces _____

Of Edges _____

Of Vertices _____



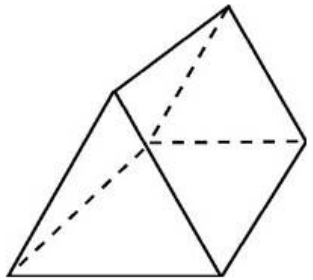
B1: Find the Number…

Triangular Prism

Of Faces _____

Of Edges _____

Of Vertices _____



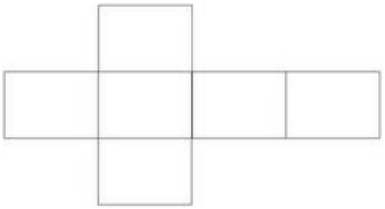
A2: Match the Net With the 3D Figure (Draw Line)

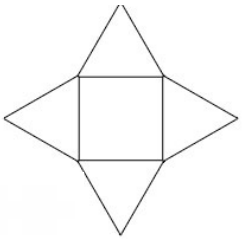
Hexagonal Prism

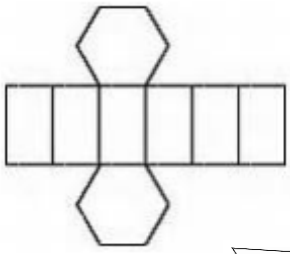
Triangular Pyramid

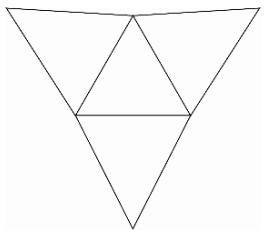
Rectangular Prism

Square Pyramid









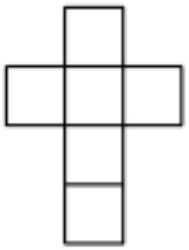
B2: Match the Net With the 3D Figure (Draw Line)

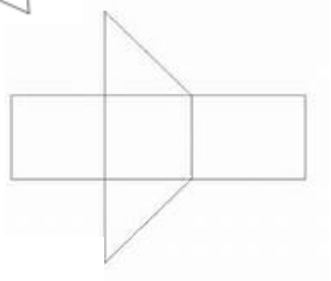
Cube

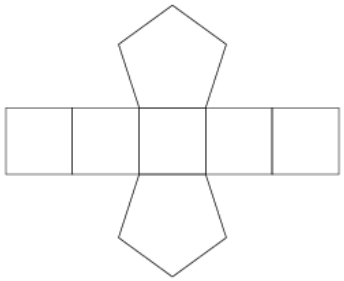
Triangular Prism

Pentagonal Prism

Pentagonal Pyramid

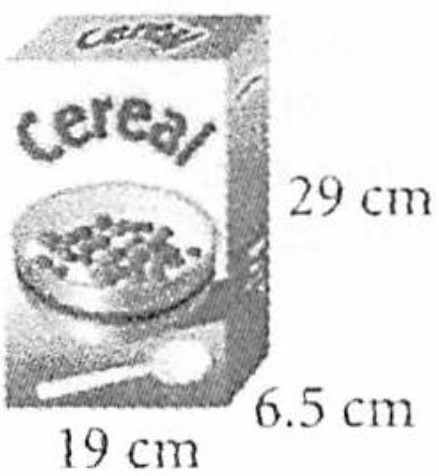


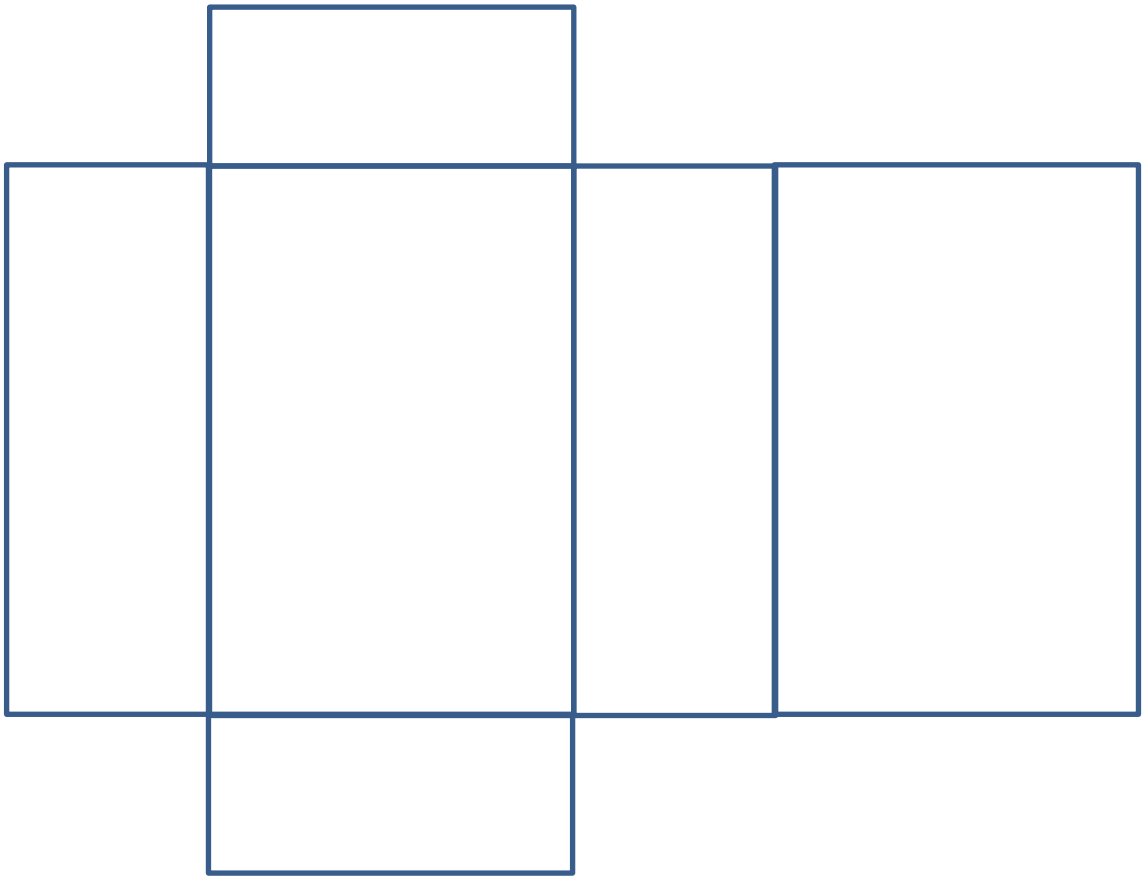




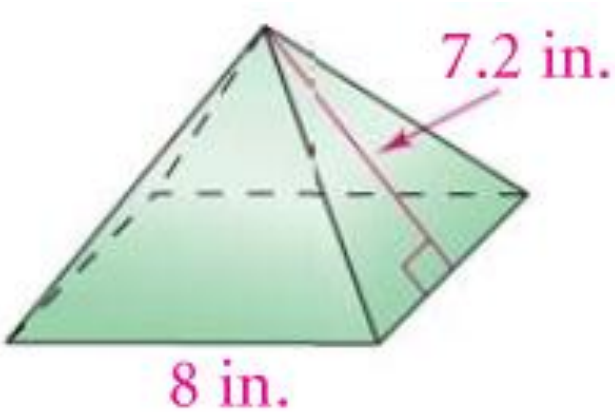
"I Can Find the Surface Area of a 3D Figure by Finding the Area of Each of its Faces With and Without the Use of a Net."

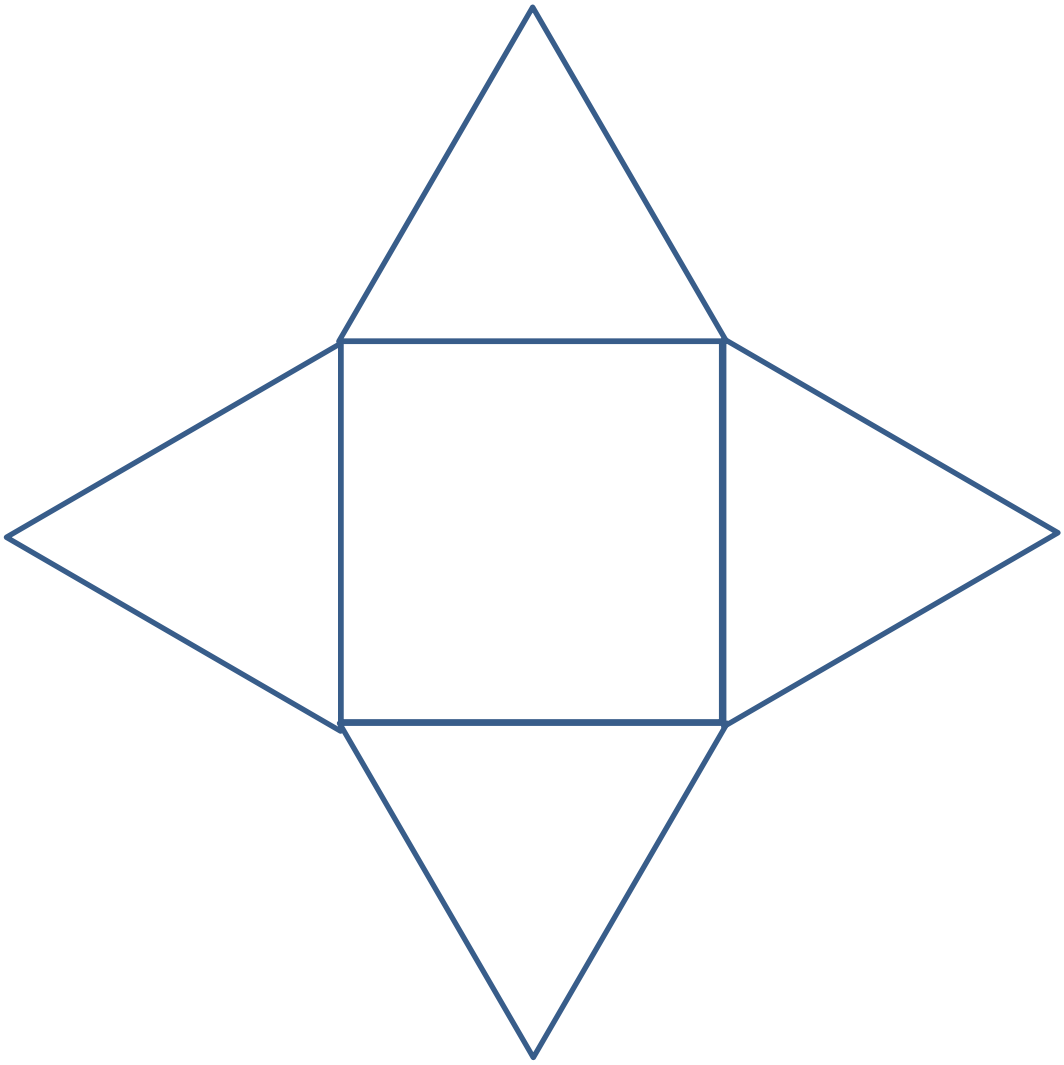
A1: Find the Surface Area



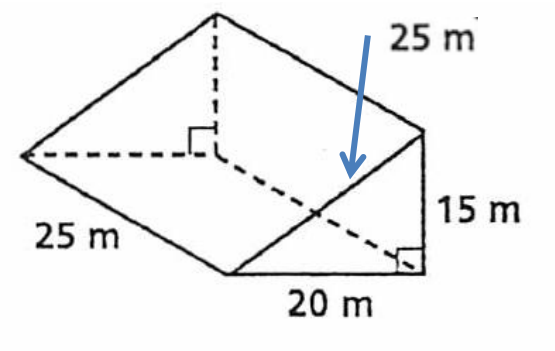


A2: Find the Surface Area of the Square Pyramid

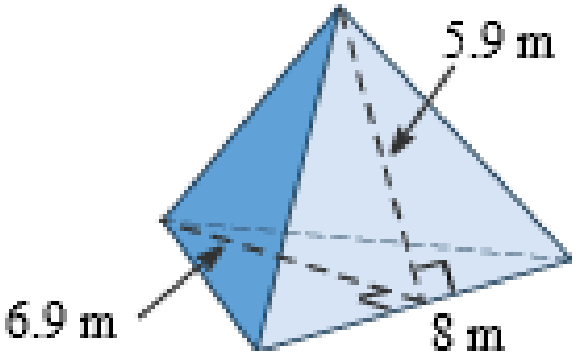




A3. Find the Surface Area



A4: Find the Surface Area



Unit E: Geometry Answers

"I Can Find the Area of Squares, Rectangles, Parallelograms, Triangles, and Trapezoids using the Appropriate Formula."

A1:	$154.5\ cm^2$	**Y**	**N**	**B**1:	$116\ in^2$	**Y**	**N**
A2:	$44\ m^2$	**Y**	**N**	**B**2:	$10.54\ cm^2$	**Y**	**N**
A3:	$3\frac{1}{16}\ ft^2$	**Y**	**N**	**B**3:	$1\frac{3}{7}\ cm^2$	**Y**	**N**
A4:	$7\ m^2$	**Y**	**N**	**B**4:	$1\ in^2$	**Y**	**N**
A5:	$42.5\ cm^2$	**Y**	**N**	**B**5:	$252\ ft^2$	**Y**	**N**
A6:	$\frac{5}{6}$ mile	**Y**	**N**	**B**6:	5 cm	**Y**	**N**
A7:	\$21.60	**Y**	**N**				

"I Can Find the Area of Regular and Irregular Figures by Decomposing them into Rectangles and Triangles."

A1:	$1530.9\ cm^2$	**Y**	**N**	**B**1:	$750.72\ m^2$	**Y**	**N**
A2:	$1032\ m^2$	**Y**	**N**	**B**2:	$112.5\ units^2$	**Y**	**N**

"I Can Find the Area of the Shaded Region by Subtracting the Smaller Area from the Larger Area."

A1:	$50\ m^2$	**Y**	**N**	**B**1:	$18\ cm^2$	**Y**	**N**

"I Can Draw Polygons in the Coordinate Plane and Use Various Strategies to Calculate the Area of the Polygon and Determine the Lengths of the Sides to Find the Perimeter of the Polygon."

A1:	A: $80\ units^2$ P: 42 units 630 meters	**Y**	**N**	**B**1:	A: $88\ units^2$ P: 54 units 108 feet	**Y**	**N**

A2: 28 units^2 **Y N** **B2:** 20 units^2 **Y N**

"I Can Find the Volume of a Right Rectangular Prism by Applying the Appropriate Formula."

A1: 522.6 m^3 **Y N** **B1:** 21 ft^3 **Y N**

A2: $4\frac{1}{2} \text{ ft}^3$ **Y N** **B2:** $1\frac{1}{20} \text{ m}^3$ **Y N**

A3: 6.24 ft **Y N** **B3:** $\frac{1}{2} \text{ cm}$ **Y N**

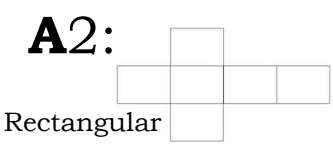
A4: 216 cm^3 **Y N** **B4:** $3\frac{1}{2} \text{ in}^3$ **Y N**

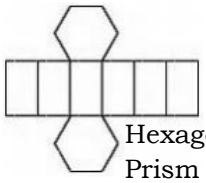
"I Can Identify Faces, Edges, and Vertices of 3D Figures."
"I Can Represent a 3D Figure with a Net."

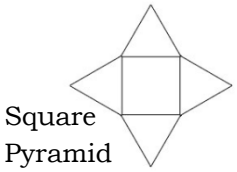
A1: 6 Faces
10 Edges **Y N**
6 Vertices

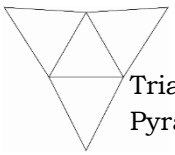
B1: 5 Faces
9 Edges **Y N**
6 Vertices

A2:

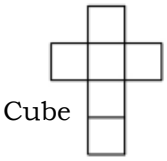

Rectangular Prism

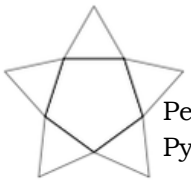

Hexagonal Prism

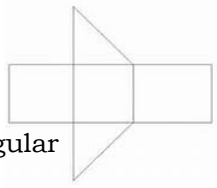

Square Pyramid

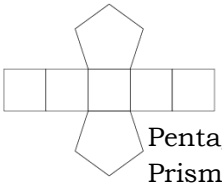

Triangular Pyramid

B2:


Cube


Pentagonal Pyramid


Triangular Prism


Pentagonal Prism

"I Can Find the Surface Area of a 3D Figure by Finding the Area of Each of its Faces With and Without the Use of a Net."

A1: 1726 cm^2 **Y N** **A2:** 179.2 in^2 **Y N**

A3: 1800 m^2 **Y N** **A4:** 98.4 m^2 **Y N**