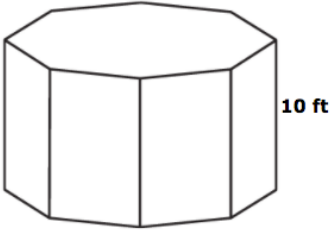
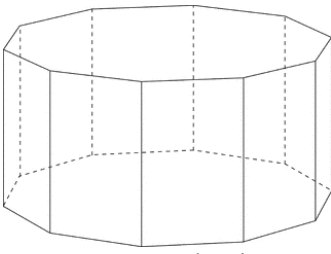
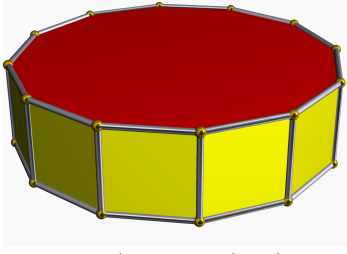
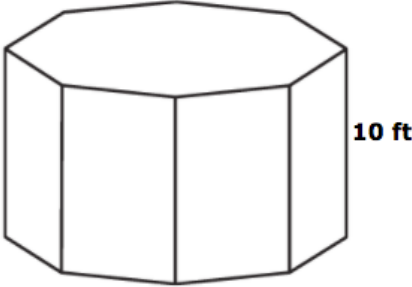
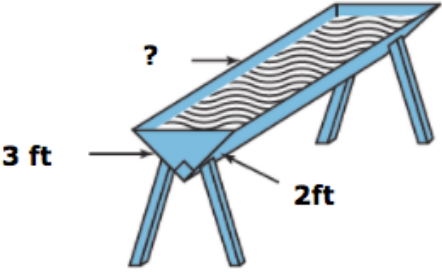
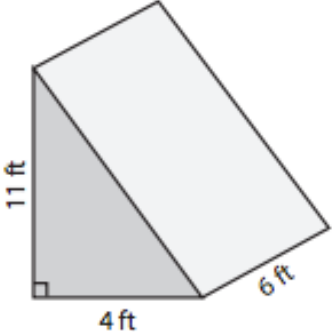


Player A: GET TO THE TOP OF THE TOTEM POLE!

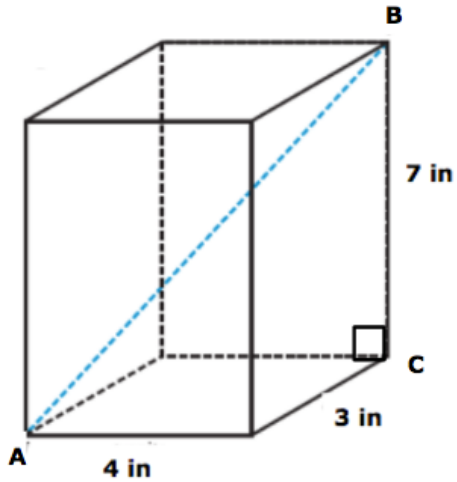
Directions: Start from the bottom and work your way up. After each problem give the answer to your partner to check if you can **both** move up. The problems increase in difficulty as you go up the pole.

Note: All your work must be shown in your notebook.

<p>Legend:</p>	<p>Complete “Back on the Farm” pg. 347 Part 2: Farmer Minh’s Barn #1-3</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Octagonal Prism</p> </div> <div style="text-align: center;">  <p>Decagonal Prism (Base with 10 sides)</p> </div> <div style="text-align: center;">  <p>Dodecagonal Prism (Base with 12 sides)</p> </div> </div>
<p>Hall of Fame:</p>	<p>The perimeter of the base of the octagonal prism below is 300 ft. Find the lateral surface area of the prism given the height is equal to 10 feet.</p> <div style="text-align: center;">  </div>
<p>MVP:</p>	<p>Farmer Minh, a neighbor of rancher Gonzales, has a drinking trough for his animals. The trough is in the shape of the triangular prism as shown below. The triangle that forms the base of this prism is a right triangle with 2 ft and 3 ft legs. Farmer Minh knows that the trough holds 24 ft^3 of water. What is the length of the trough in feet?</p> <div style="text-align: center;">  </div>
<p>All Star:</p>	<p>Find the volume of the triangular prism.</p> <div style="text-align: center;">  </div>

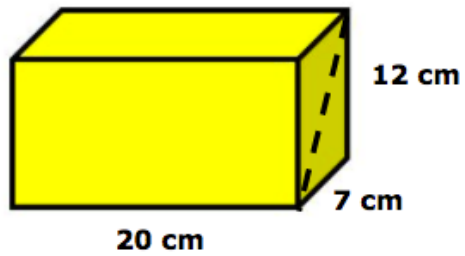
Baller:

Find the length of segment AB.



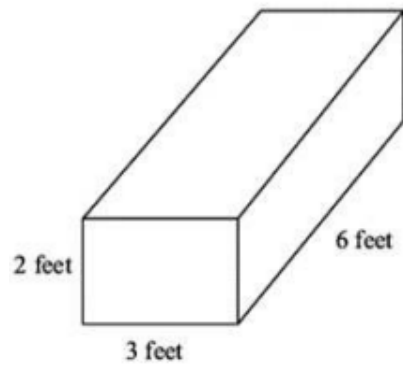
Starter:

Find the length of the dotted diagonal segment.



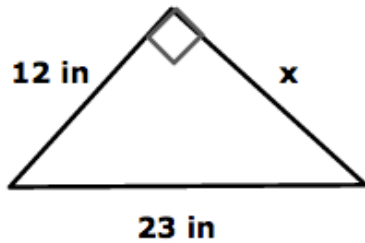
Rookie:

Find the surface area and volume.



START
HERE:

Find x.



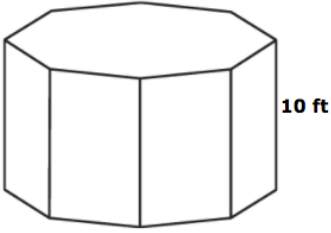
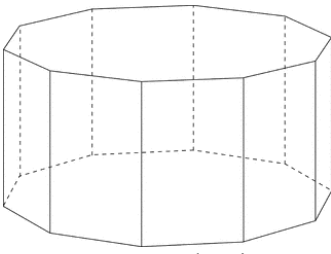
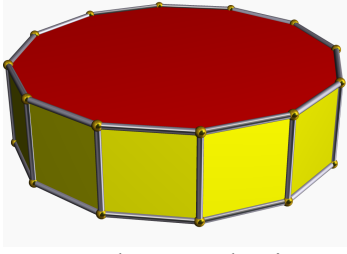
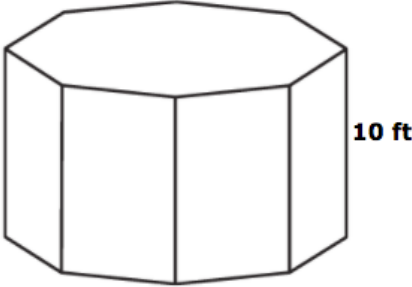
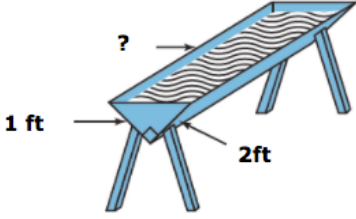
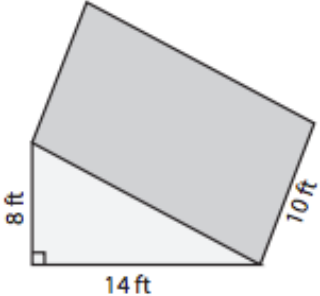
Player B's Answers

Legend:	
Hall of Fame:	Lateral Surface Area (LSA) = $6,000 \text{ ft}^2$
MVP:	8 ft
All Star:	$V = 560 \text{ ft}^3$
Baller:	$AB = \sqrt{84}$ or approximately 9.17 in
Starter:	$\sqrt{274}$ or approximately 16.55 in
Rookie:	$SA = 158 \text{ cm}^2$ $V = 120 \text{ cm}^3$
START HERE:	$X = 9.38 \text{ cm}$

Player B: GET TO THE TOP OF THE TOTEM POLE!

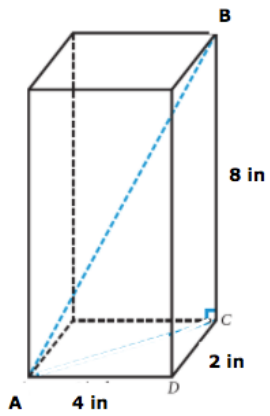
Directions: Start from the bottom and work your way up. After each problem give the answer to your partner to check if you can **both** move up. The problems increase in difficulty as you go up the pole.

Note: All your work must be shown in your notebook.

<p>Legend:</p>	<p>Complete “Back on the Farm” pg. 347 Part 2: Farmer Minh’s Barn: #1-3</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Octagonal Prism</p> </div> <div style="text-align: center;">  <p>Decagonal Prism (Base with 10 sides)</p> </div> <div style="text-align: center;">  <p>Dodecagonal Prism (Base with 12 sides)</p> </div> </div>
<p>Hall of Fame:</p>	<p>The perimeter of the base of the octagonal prism below is 600 ft. Find the lateral surface area of the prism given the height is equal to 10 feet.</p> <div style="text-align: center;">  </div>
<p>MVP:</p>	<p>Farmer Minh, a neighbor of rancher Gonzales, has a drinking trough for his animals. The trough is in the shape of the triangular prism as shown below. The triangle that forms the base of this prism is a right triangle with 1 ft and 2 ft legs. Farmer Minh knows that the trough holds 10ft^3 of water. What is the length of the trough in feet?</p> <div style="text-align: center;">  </div>
<p>All Star:</p>	<p>Find the volume of the triangular prism.</p> <div style="text-align: center;">  </div>

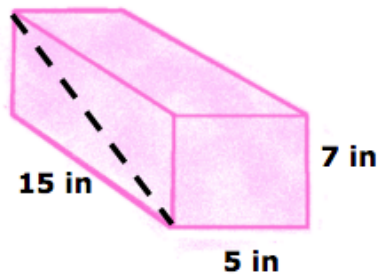
Baller:

Find the length of segment AB.



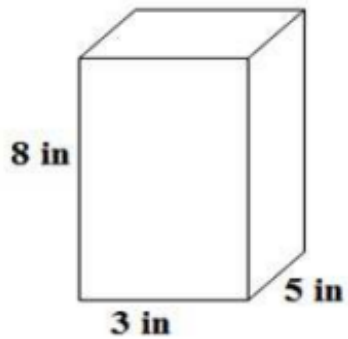
Starter:

Find the length of the dotted diagonal segment.



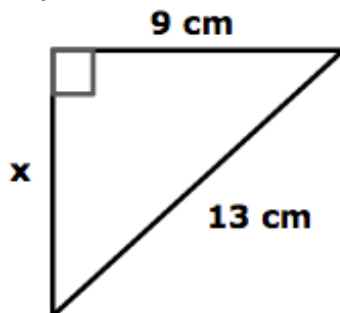
Rookie:

Find the surface area and volume.



START
HERE:

Find x.



Player A's Answers

Legend:	
Hall of Fame:	Lateral Surface Area (LSA) = 3,000 ft ²
MVP:	10 ft
All Star:	V = 132 ft ²
Baller:	AB = $\sqrt{74}$ or approximately 8.6 in
Starter:	$\sqrt{53}$ or approximately 13.9 cm
Rookie:	SA = 72 ft ² , V = 36 ft ³
START HERE:	X = 19.62 in