


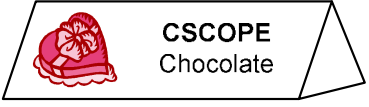

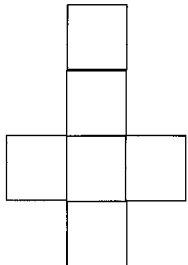
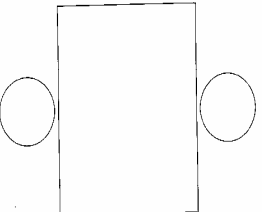
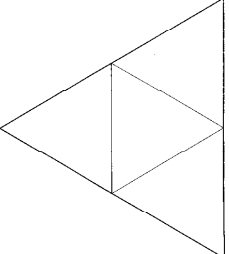
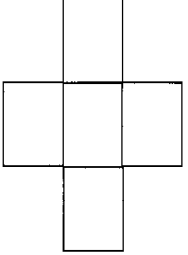
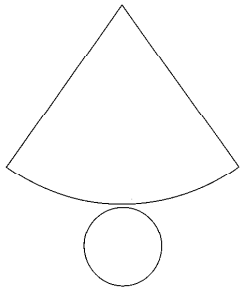
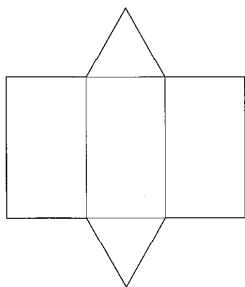
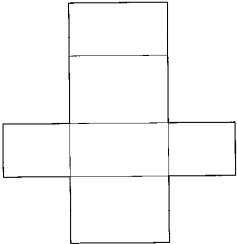
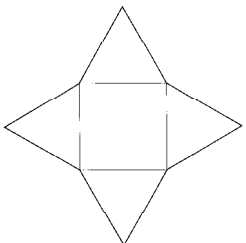


Surface Area and Volume

Match each three-dimensional figure with the appropriate net from the choices given below. There are extra answer choices.

1	2	3	4	5
				
Answer:	Answer:	Answer:	Answer:	Answer:

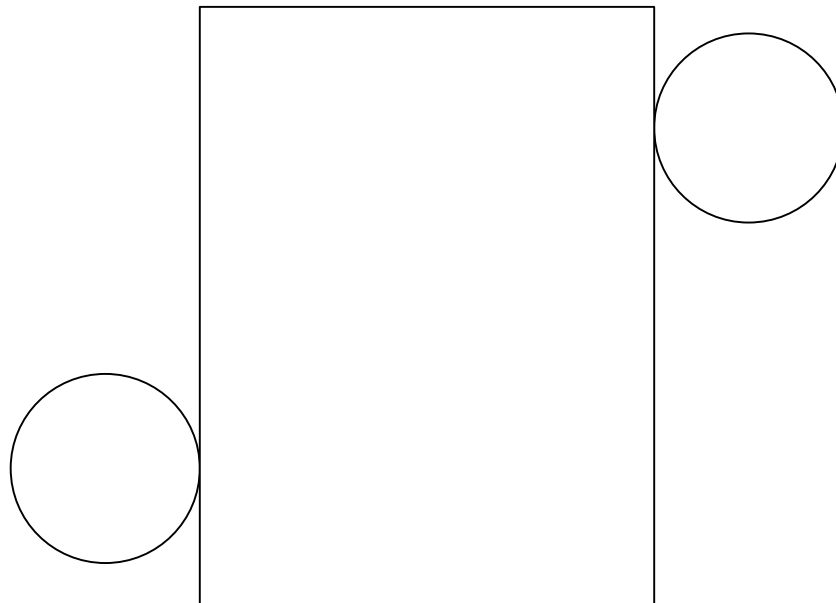
<p>A.</p> 	<p>B.</p> 	<p>C.</p> 	<p>D.</p> 
<p>E.</p> 	<p>F.</p> 	<p>G.</p> 	<p>H.</p> 

6. Write a paragraph to describe the model of a prism and a pyramid.

Surface Area and Volume

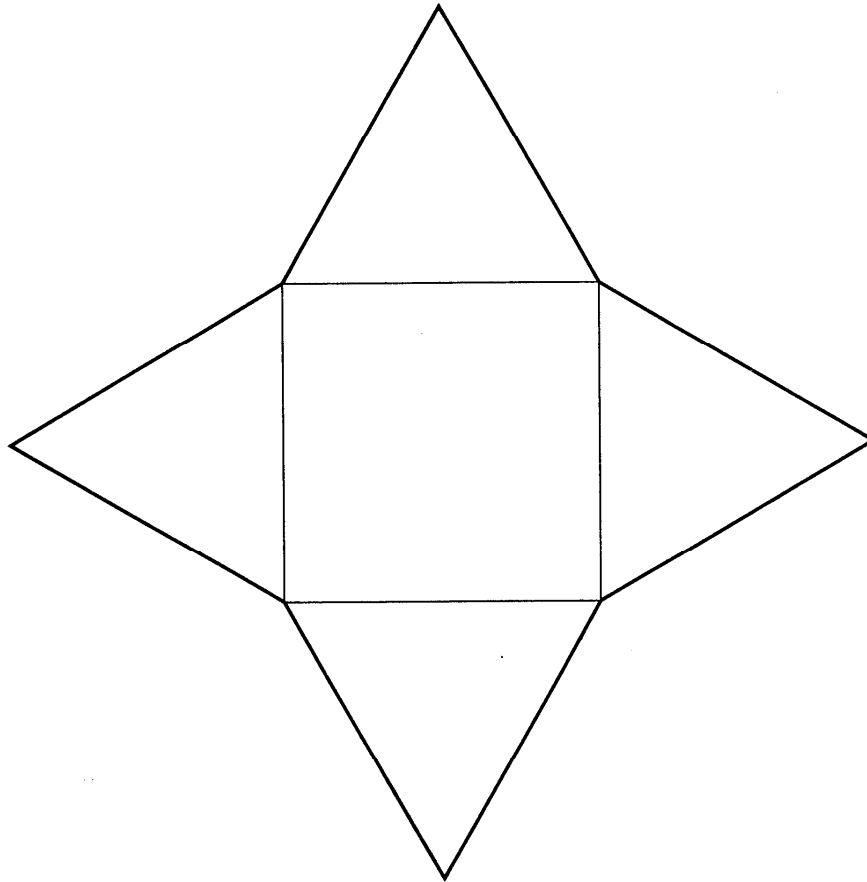
For problems 7 – 14 use the ruler on the STAAR Grade 8 Reference Materials to measure the dimensions when the dimensions are not given. Write your measurements to the nearest half of a centimeter. Use 3.14 for π . You will round your answers **after** doing the calculations for the problem.

7. The pep squad is making spirit sticks to sell out of heavy cardboard. The spirit sticks will be cylindrical noisemakers that are completely covered in material printed with the school's mascot. Measure this pattern in centimeters to determine the approximate amount of material needed for 1 spirit stick. To the nearest square centimeter, what is the surface area of the cylinder?



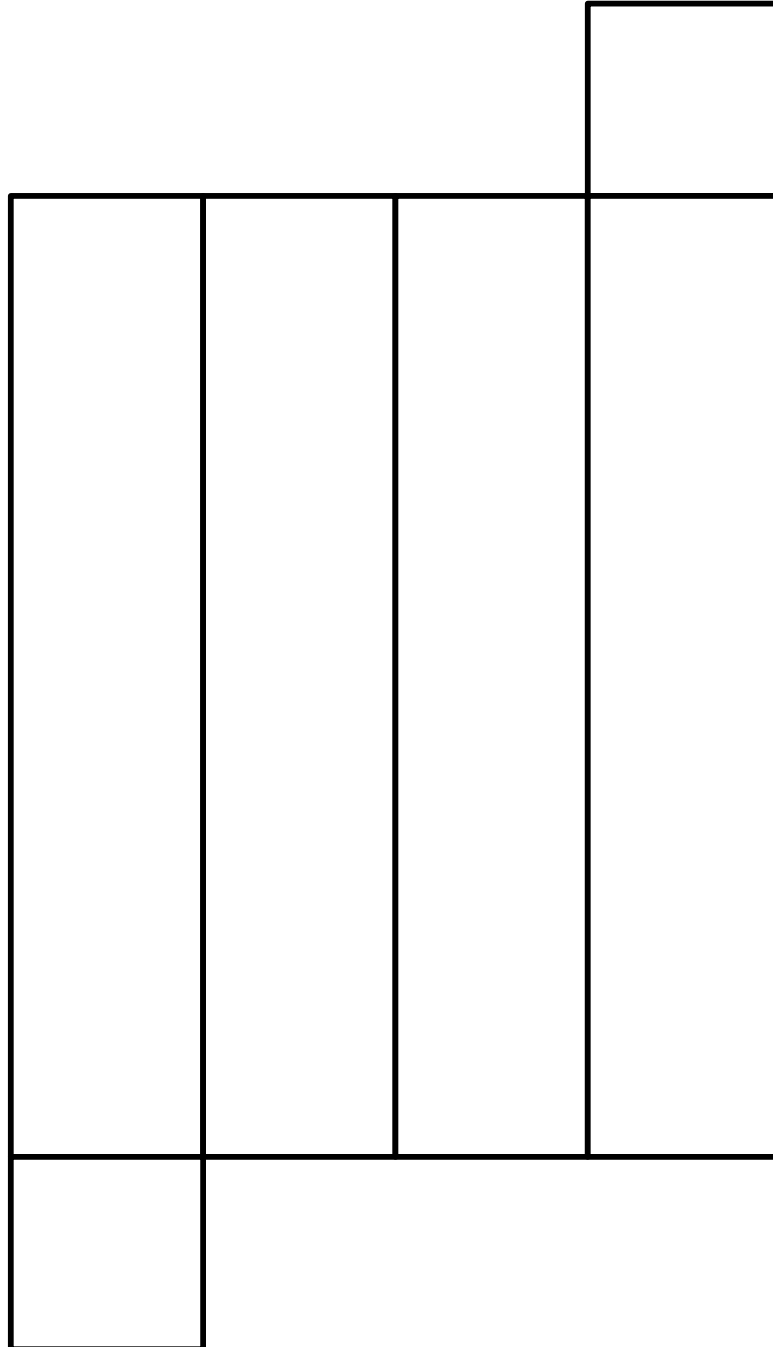
Surface Area and Volume

8. Mikey is making and using the following net to make a square pyramid model out of cardstock. To the nearest square centimeter what is the approximate amount of cardstock needed for Mikey's pyramid?



Surface Area and Volume

9. The following is the net of a mold for a homemade chocolate candy bar that Sheldon ordered from Chef Pierre. Round your answer to the nearest hundredth to approximate the quantity of solid chocolate that Sheldon will make with this mold.



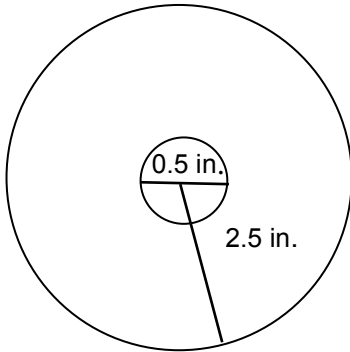
Surface Area and Volume



10. Jazz is painting the interior of my house. To the nearest square inch, how much wall space will Jazz cover with one complete rotation of this paintbrush roller? How many square centimeters will Jazz cover with one complete rotation of this paintbrush roller?

Surface Area and Volume

11. Mindy works at Music Mania. They get blank CD's in tall stacks 3-feet high. What is a reasonable estimate of the volume of a single stack of these CD's in cubic inches? Calculate the volume of a single stack of these CD's to the nearest cubic inch.



12. What is the volume of a rectangular prism sandbox in cubic feet, if the height is 30 inches, the length is 72 inches and the width is 72 inches?
13. To the nearest cubic inch, what is the approximate capacity of a cylindrical container if the diameter is 8 inches and the height is 1 foot?
14. To the nearest square inch, how much cardboard is needed for the side of the cylindrical container in problem 12?