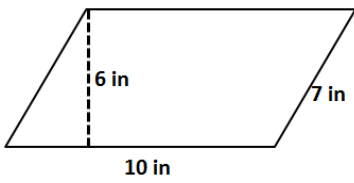
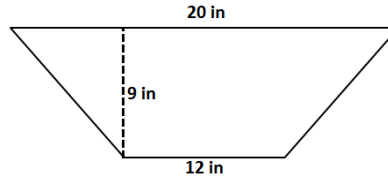


Review for Final Exam

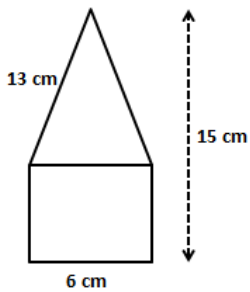
1. Calculate the area of the parallelogram



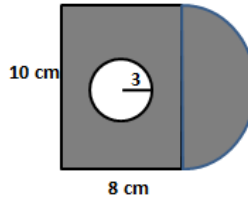
2. Calculate the area of the trapezoid



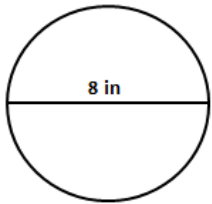
3. Calculate the area of the composite figure



4. Calculate the area of the shaded region

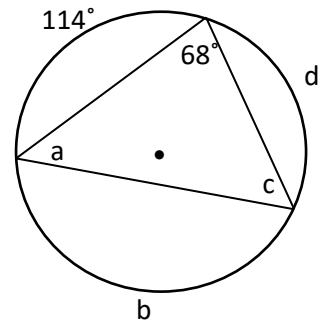


5. Find the area and circumference



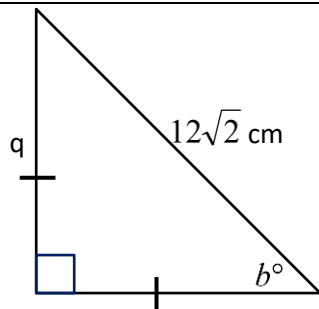
6. Find each measure:

a = \_\_\_\_\_  
 b = \_\_\_\_\_  
 c = \_\_\_\_\_  
 d = \_\_\_\_\_

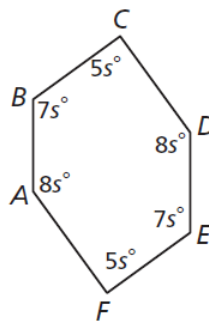


7. Find each measure:

q = \_\_\_\_\_  
 b = \_\_\_\_\_

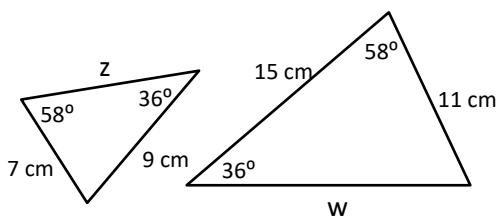


8. Find the measure of each angle.

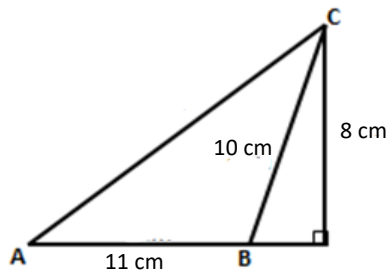


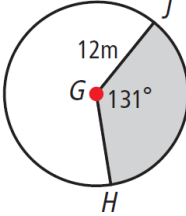
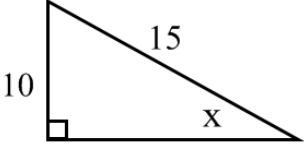
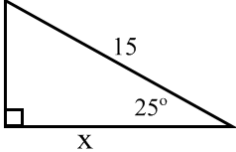
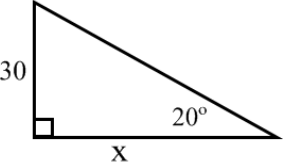
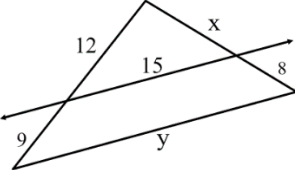
9. Find each:

Z = \_\_\_\_\_  
 W = \_\_\_\_\_



10. Find the area of triangle ABC.

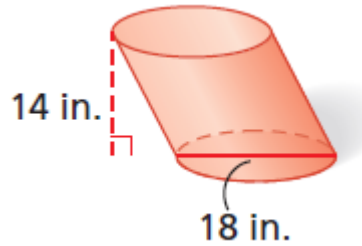


<p>11. Celina is 5 feet tall, her shadow is 7.5 feet. At the same time a nearby tree has a shadow 30 feet long. How high is the tree?</p>	<p>12. You plan to paint the walls and ceiling of your dorm room. It measures 15 feet by 23 feet and has 9 feet ceilings. If one gallon of paint covers 30 sq ft. How many gallons of paint will you need to buy?</p>
<p>13. A merry-go-round has a surface area of 1134 sq ft. What is the diameter of the merry-go-round?</p>	<p>14. Find the area of the sector and the length of arc JH.</p> 
<p>15. A ladder leans against a wall. The ladder is 18 feet long. If it makes an angle of elevation of <math>70^\circ</math> to the ground, how high on the wall does it go?</p>	<p>16. Dilate <math>D(1, 1)</math>, <math>O(-2, 3)</math>, <math>G(0, -3)</math>  <math>(x, y) \rightarrow (3x, 3y)</math></p> <p><math>D' ( \quad , \quad )</math>  <math>O' ( \quad , \quad )</math>  <math>G' ( \quad , \quad )</math></p>
<p>17. Find the degree measure of <math>x</math>.</p> 	<p>18. Find the value of <math>x</math></p> 
<p>19. Find the value of <math>x</math>.</p> 	<p>20. Solve for <math>x</math> and <math>y</math> using proportions</p> 
<p>21. Find the radius of a circle if the area is <math>64\pi \text{ in}^2</math>.</p>	<p>22. Find the measure of each interior angle in a regular nonagon.</p>
<p>23. Simplify <math>\sqrt{720}</math></p>	<p>24. Find the EXACT height of the equilateral triangle if each side length is 6cm.</p>

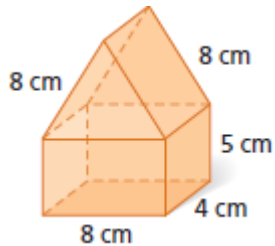
25. A bead is formed by drilling a cylindrical hole with a 2 mm diameter through a sphere with an 8 mm diameter. Estimate the surface area and volume of the bead.



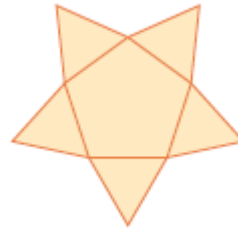
26. Find the volume of the cylinder. Give your answers in terms of pi and rounded to the nearest tenth.



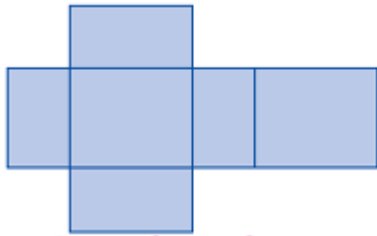
27. Find the volume and surface area of the composite figure. Give your answers in terms of pi and rounded to the nearest tenth.



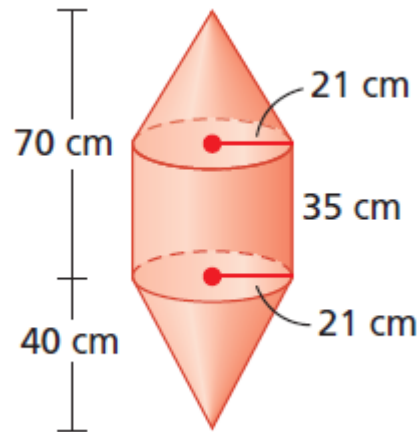
28. Describe the three-dimensional figure that can be made from the given net.



29. Describe the three-dimensional figure that can be made from the given net.



30. Find the volume of the composite figure. Give your answers in terms of pi and rounded to the nearest tenth.



31. Construct the following with a compass and straight edge only (no protractors):

- An equilateral triangle
- A square
- A regular hexagon
- A regular dodecagon with side lengths of 3 cm.
- Bisect an angle
- Bisect a segment