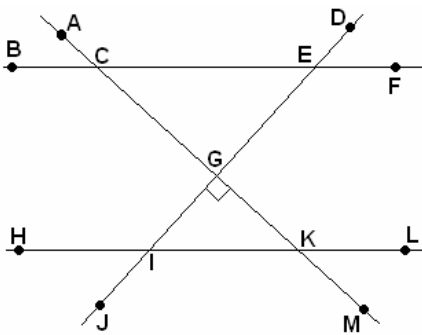


Simplify all answers and show your work!

1. There are _____ degrees in a line.
2. There are _____ degrees in a triangle.
3. There are _____ degrees in a circle.
4. What is the vertex of $\angle PTG$? _____
5. An angle that is between 90° and 180° is called _____.
6. An angle with a measure of 90° is a _____ angle.
7. Two lines in a plane that do not cross are called _____ lines.
8. Perpendicular lines cross in a _____ degree angle.
9. Write in scientific notation: 68,000,000
10. Write in engineering notation: 0.00000059

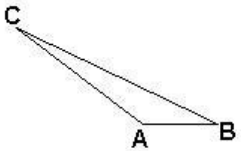
11. Write using the correct metric prefix: 0.00000084 meters
12. $9.26 \text{ L} = \text{_____ mL}$
13. $3.1 \text{ cm} = \text{_____ m}$

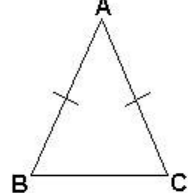
Refer to the figure below for problems 14 – 19.



14. Name an acute angle. _____
 15. Name an obtuse angle. _____
 16. Name a right triangle. _____
 17. What is the measure of angle EGC?
- If the measure of angle BCG is 142° :
18. find the measure of angle ECG.
 19. find the measure of angle CEG.

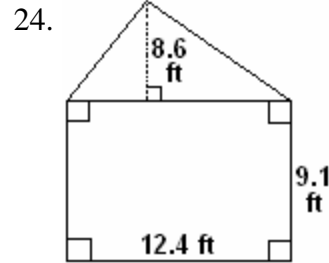
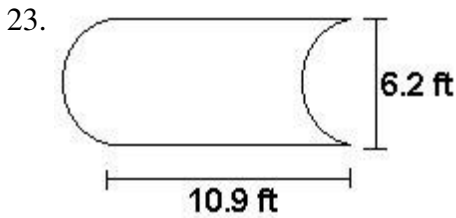
Classify the following triangles as a) acute, right, or obtuse and b) scalene, isosceles, or equilateral.

20.  a) _____
 b) _____

21.  a) _____
 b) _____

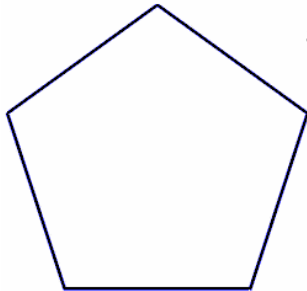
22. Draw an example of two figures that have the same area but different perimeter.

Find the areas of the figures below:



25. A man needs to repaint the two triangular gables on his house. Each gable is 35 ft long and 14 ft high. How many gallons of paint will he need if a gallon of paint covers 100 sq. ft.? (You must buy whole gallons, so round your answer to the nearest whole gallon.)

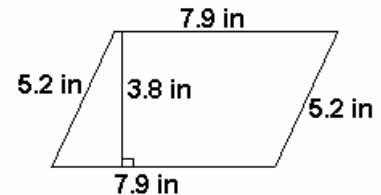
26. The figure below is a regular pentagon.



a) Find the sum of the interior angles.

b) Find the measure of one interior angle.

27. Find the perimeter of the figure below.



28. Jose plans to fence his yard for his new dog. The yard is a 60 ft by 90 ft rectangle. Four feet of the rectangular yard is going to be used as a gate instead of for fencing, and the gate costs \$24.99. Fencing costs \$35.99 per 10 ft section. What is the cost of the fence and gate together?

29. The striking circle in a field hockey field is a semicircle measured out 16 yards from the goal line. Find the area of one semicircle in the field hockey field.

30. A walkway 4 meters wide is constructed along the outside edge of a square courtyard. If the perimeter of the courtyard is 200 meters and fencing costs \$12.00 a meter, what is the cost of the fencing that will be needed along the outer edge of the walkway to completely encircle the courtyard and walkway?