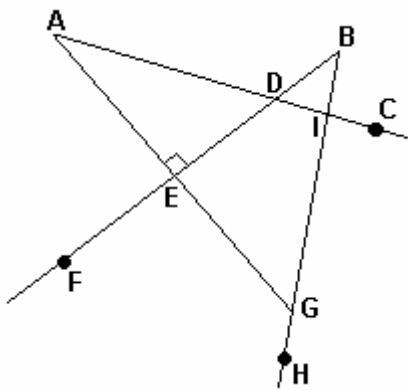


Simplify all answers and show your work!

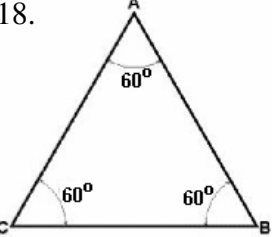
1. There are _____ degrees in a circle.
2. There are _____ degrees in a line.
3. There are _____ degrees in a triangle.
4. A right angle has measure of _____ degrees.
5. What is the vertex of $\angle FKE$? _____
6. Two lines in a plane that do not cross are called _____ lines.
7. Two lines in a plane that cross in a right angle are called _____ lines.
8. Write in scientific notation: 0.000000000026
9. Write in engineering notation: 652,000,000,000
10. Write using the correct metric prefix: 0.0000015 liters
11. 23 mm = _____ m
12. 5.7 km = _____ cm

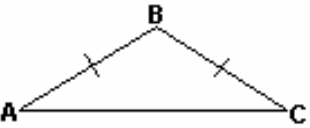
Refer to the figure below for problems 13 – 17.



13. Name a right angle.
14. Name an acute angle.
15. Name an obtuse angle.
16. If $AE = 5$ cm and $ED = 4$ cm, find the length of AD .
17. If $AD = 11$ and $AE = 6$, find the length of ED .

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

18.  a) _____
b) _____

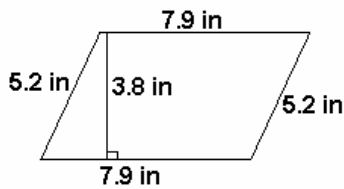
19.  a) _____
b) _____

20. Draw an example of two figures that have the same area but different perimeters.

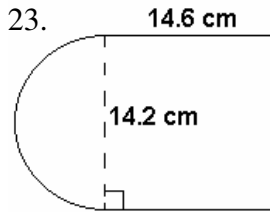
21. A circular track is a mile long. What is the diameter of the circular track? (5,280 feet = 1 mile)

Find the areas of the figures below:

22.

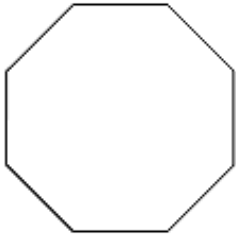


23.



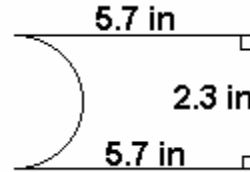
24. If the figure below is a regular octagon, what is the measure of:

a) the sum of the interior angles?



b) the measure of one interior angle?

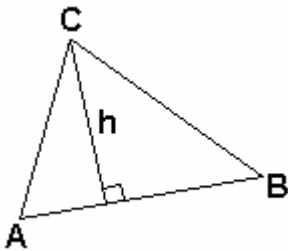
25. Find the perimeter of the figure below.



26. A yard in the shape of a square measures 18 ft on each side. A triangular area with a height of 4 ft and a base of 9 ft is dug up for a flowerbed. How much yard area is left over?

27. Tom is going to build a fence around his garden, which is a rectangle measuring 15 m by 20 m. He will first put in posts, which will be 5 m apart. If the posts cost \$3.25 each, what will be the total cost for all the posts?

28. Given the triangle below, answer the following.



a) If $\angle A = 62^\circ$ and $\angle C = 49^\circ$, find $\angle B$.

b) If $AC = 5.7$ m, $BC = 6.9$ m, and $AB = 7.2$ m, find the perimeter of the triangle.

c) If $AB = 19.3$ cm and $h = 15.8$ cm, find the area of the triangle.