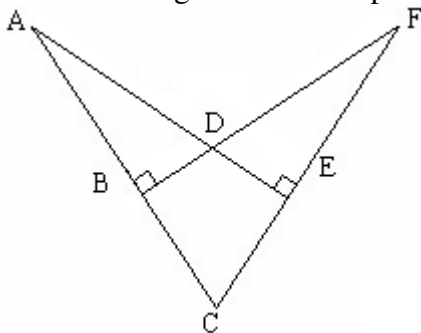


Simplify all answers and show your work!

1. There are _____ degrees in a line.
2. There are _____ degrees in a circle.
3. There are _____ degrees in a triangle.
4. What is the vertex of $\angle FGS$? _____
5. An angle that is between 0° and 90° 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. A triangle with two equal sides is called an _____ triangle.
9. Write in scientific notation: 0.0000543
10. Write in engineering notation: 235,000,000,000

11. Write using the correct metric prefix: 0.000053 seconds
12. 6.7534 km = _____ mm
13. 52 g = _____ kg

Refer to the figure below for problems 14 – 20.



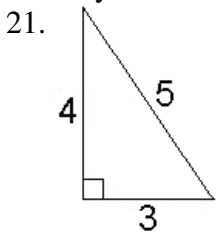
14. Name an acute angle. _____
15. Name an obtuse angle. _____

16. Name a right triangle. _____
17. What is the measure of $\angle DBC$?

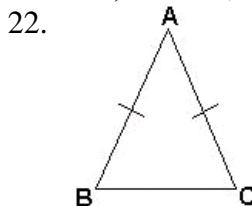
If the measure of $\angle DAB$ is 32° ,

18. find the measure of $\angle ADB$.
19. find the measure of $\angle BDE$.
20. find the measure of $\angle BCE$.

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

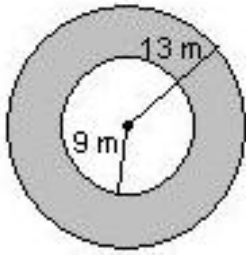


- a) _____
- b) _____

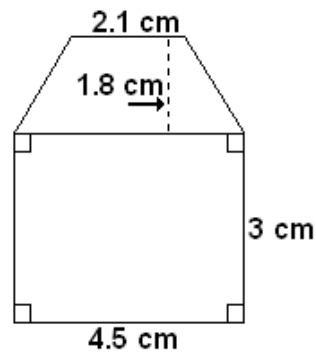


- a) _____
- b) _____

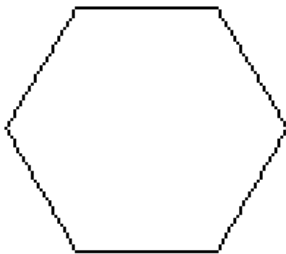
23. Find the shaded area:



24. Find the area of the figure below:



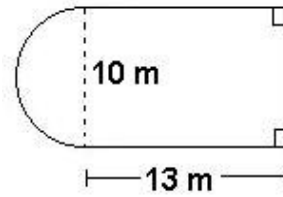
25. The figure below is a regular hexagon.



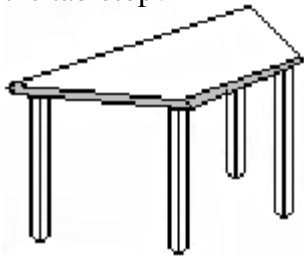
a) Find the sum of the interior angles.

b) Find the measure of one interior angle.

26. Find the perimeter of the figure below.



27. A tabletop is in the shape of a trapezoid. (See figure.) If the longer base of the trapezoid is 3.5 feet long, the shorter base of the trapezoid is 2.25 feet long, and the height of the trapezoid is 1.5 feet long, what is the area of the tabletop?



28. A radio station builds a new broadcasting tower that allows the station to be heard 70 miles in all directions. How many square miles are now in the station's broadcast area?

29. A room is in the shape of a triangle has a base length of 15 ft and a height length of 13 ft. If carpeting costs \$8.99 per sq. ft., padding costs \$1.25 per sq. ft., and installation costs a flat fee of \$50, how much will it cost to carpet the room?