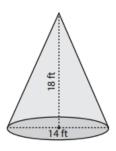
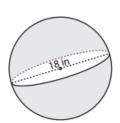
"Commitment unlocks the doors of imagination, allows vision, and gives us the right stuff to turn our dreams into reality." – James Womack

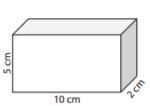
1)



2)



3)

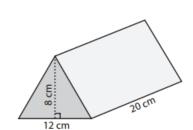


Volume =

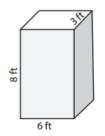
Volume =

Volume =

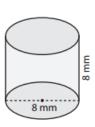
4)



5)



6)



Volume =

Volume =

Volume =

Solve the following:

1.
$$|4 - 3x| = 22$$

Check:

2.
$$|x-5|+3=8$$

Check:

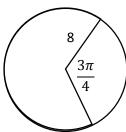
3.
$$-6|4-4k|=72$$

Check:

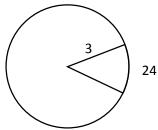
$$4.-4|b-2|-9=3$$

Check:

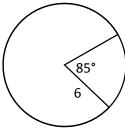
1) Calculate the length of the given arc when the central angle is $\frac{3\pi}{4}$ radians and the radius is 8.



2) Find the central angle in radians when the arc length is 24 units and the radius is 3 units.



3) Find the area of the given sector with a central angle of 85° and a radius of 6 units.



4) A sprinkler rotates around in order to cover a large area of the yard. If the sprinkler head rotates around through the angle of 270° and has a reach of 15 feet, how much area is watered by the sprinkler?

Solve the following:

- 1. The value of a house appreciates at a rate of 2.5%. The house is currently valued at \$120,000. What will the value of the house be in 12 years?
- 2. You need to have \$500 in order to buy a new television. If you invest \$250 in an account that compounds continuously at a rate of 5% how long will it take to have the money you need?
- 3. The population of a city is declining by 2.5% per year. If the population is currently at 56,471, when will the population be in 50,000?
- 4. Your current hourly wage is \$7.50 an hour. Your hourly wage increases by 8% every quarter. What will your wage be in two years?