



Here's the list of questions that go along with the tutoring video **BASIC GEOMETRY**. Use these to follow along with the problems as they are demonstrated.

FORMULA'S

Square/ Rectangle:

$$A = L \times W \text{ (Area= Length x Width)}$$

Circles:

$$C = 2 \pi r \text{ (Circumference= } 2 \times \pi \times \text{radius)}$$

$$A = \pi r^2 \text{ (Area= } \pi \times r \text{ *squared)}$$

Triangles:

$$A = \frac{1}{2} bh \text{ (Area= } \frac{1}{2} \times \text{base x height)}$$

Volume Of A...

Cube: $L \times W \times H$ (length x width x height)

Sphere (Ball): $\frac{4}{3} \pi r^3$ ($\frac{4}{3} \times \pi \times r$ *cubed)

Cylinder: $A \times H$ (area x height)

Cone: $\frac{1}{3} ah$ ($\frac{1}{3} \times$ area x height)

$$\pi = 3.14$$

Pythagorean Theorem:

$$a^2 + b^2 = c^2 \text{ (a *squared + b *squared = c *squared)}$$

Hypotenuse- Side of the triangle across from the right angle

When it comes to getting hired, so many men and women spend years taking test after test, but keep getting passed over for the job. FirefighterNOW provides resources that teach exactly what is necessary to become a top firefighter candidate, the type that all fire departments would love to hire.



- 1. Area of a room that is 10ft. x 12ft.**
- 2. Area of a room that is 33ft x 21ft.**
- 3. What is the circumference of a frisbee that is 9 inches in diameter?**
- 4. What is the circumference of a plate that is 2.75 inches in radius?**
- 5. What is the volume of a bedroom that is 10 x 12 x 8 feet?**
- 6. There is a cube with one side of 8 inches. What is it's volume?**
- 7. A volleyball has a diameter of 6 inches. What is it's volume?**
- 8. A bucket has a height of 10 inches and a volume of 1130.4 cubic inches. What is the diameter of the bucket?**
- 9. See video.**
- 10. See video.**
- 11. The tire on Engine 5 can roll 188.4 feet in 30 revolutions. What is the radius of the tire in inches?**