

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

1.  $\frac{1}{2} = \frac{X}{6}$

2.  $\frac{2}{3} = \frac{X}{12}$

3.  $\frac{12}{48} = \frac{X}{144}$

4. **17 is 40% of what?**

5. **30 is 75% of what?**

6. **20:4 simplify this ratio**

7. **8:32 simplify this ratio**

8. **A mixture of weed killer requires the concentrate to be mixed in water. The mixture requires 4 tbs per gallon. How many tablespoons are required for 50 gallons?**

9. **If an employee earns 4 times what they were paid two years ago, and their current wage is \$28.40 per hour...what was their wage 2 years ago?**

10. **A fire station houses 2 engines. The newer engine holds 1250 gallons, which is 250 gallons more than twice the capacity of the older engine. How many gallons could the old engine hold?**

11. **It takes Dave 2 hours to clean one squad. It takes Steve 3 hours to clean one squad. How long would it take both Dave and Steve to clean one squad together?**

*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.*



**12. Three hoses are used to fill a 360 gallon tank. If line one flows 20 gpm, line two flows 12 gpm and line 3 flows 4 gpm...how long will it take to fill the tank?**