

**Prealgebra:
Solving Ratio and Proportion Problems**

Name: _____

Solve for x :

1.) $\frac{x}{5} = \frac{35}{7}$

2.) $\frac{7}{x} = \frac{135}{8}$

When solving ratio word problems, do the following

1.)

2.)

3.) Kyrie Irving scores 16 of the Cavs' first 24 points. If this trend continues, how many points will Kyrie score if the Cavs finish with 84 points?

4.) If Alex Rodriguez hits 7 home runs in his first 24 games, how many home runs would we expect him to hit throughout the year? (if this trend continues..)

5.) Mr. Hamilton counts 25 cars drive past CHS in a span of 40 minutes. How many cars would Mr. Hamilton expect to see if this trend continues for 480 minutes?

6.) At the Canfield Fair, Sally sees 5 friends in 18 minutes. How many friends would Sally expect to see in 240 minutes?

- 7.) The number of boys to girls in the third block American History class is 5 to 4. If there are 15 boys in the class, how many girls are in the class?
- 8.) The number of adults to kids at a concert is 7 to 5. If there are 250 kids at the concert, how many adults are there?
- 9.) The number of boys to girls in A lunch is 4 to 3. If there are a total of 420 kids in A lunch, how many are boys?
- 10.) The number of cats to dogs at a shelter is 3 to 5. If there are a total of 560 animals At the shelter, how many are cats?
- 11.) The number of books to magazines in the library is 10 to 7. If there are a total of 910 books in the library, how many magazines are there?
- 12.) Biologists are trying to estimate the number of fish in a pond. They catch 50 fish, put a tag on them, and throw them back into the pond. A few weeks later, they randomly catch 80 fish, and 18 of them have the tags. How many fish would the biologists guess are in the pond?