

Algebra II

2-3

Word Problems

(pg 71)

- 1) For the Hawks' 80 basketball games next year, you can buy separate tickets for each game at \$9 each, or you can buy a season ticket for \$580. At most how many games could you attend at the \$9 price before spending more than the cost of a season ticket?

Let $x = \# \text{ games attended}$

$$9x < 580$$

$$x < 64.\bar{4}$$

64 games

- 11) The telephone company offers two types of service. With Plan A, you can make an unlimited number of local calls per month for \$18.50. With Plan B, you pay \$6.50 monthly, plus 10 cents per minute for each min of calls after the first 40 min. At least how many min would you have to use the telephone each month to make Plan A the better option?

Let $x = \#$ minutes per month

$$18.50 < 6.50 + .10(x - 40)$$

$$12 < .10x - 4$$

$$16 < .10x$$

$$160 < x$$

160min

Assignment

Pg. 71

1-14 all