

## Spring Sports

**High School:** The U.S. sports industry makes between \$30 and \$40 billion annually! This includes registration fees, equipment, travel, private coaches and other related costs. One way for an individual or a company to earn money is to host events (such as a tournament). Answer the questions to determine just how much money can be earned for an event. Read the facts about spring soccer league.

### Spring Soccer League:

- Registration is \$125 per player
- Each team has 12-14 players
- 402 players registered
- Spring season lasts 6 weeks with a total of 10 games.

1. How many teams are in the league? Tell the number of teams AND the number of players on each team. Justify your answer.

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2. Write an equation to represent the total income ( $y$ ) based on ( $x$ ) number of players registering for spring soccer

Equation: \_\_\_\_\_

3. League expenses:

- 8% of each registration goes towards overhead expenses
- It costs the league \$2500 each week to rent the soccer fields.
- The league pays a total of 1250 each week for referees and scorekeepers.

How much money is remaining from the registration fees after paying for these expenses for the entire spring season? Justify your answer.

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