

## Mathletes Problem of the Week #6

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### Flunball on Planet Remulak



On Planet Remulak they have a holiday around this time called Flickalak. During Flickalak, families come together to spend time with one another and watch everyone's favorite sport, Flunball. In Flunball, a team scores 6 points for a slurfs and 11 points for a glomstar. (A team starts with 0 points, of course.)

- a) The most points any team has ever scored in Flunball is 82. How many slurfs and how many glomstars could the team have made to get this score? Are there other ways they could have made that score?
- b) Some scores, like 2, are impossible for a team to get in Flunball. What are some other impossible scores? How many unattainable scores are there altogether? What is the highest impossible score?
- c) To make the game more exciting, they are thinking about adding in another way of scoring. In addition to slurfs and glomstars, teams would be able to score 2 points for a pwelly. How would this change the possible scores?

(Original problem from [sdmathteacherscircle.org](http://sdmathteacherscircle.org))

**Solutions & Explanations:** (Try one or try them all! Record your solutions and explanations below and on the back.)

Name \_\_\_\_\_ Class \_\_\_\_\_

**(First and last name, please!)**

**Solutions due: December 5<sup>th</sup>**