



M2C3 Project

Soccer Team Task

Student Work

This file includes grades 3 and 4 solution paths for the Soccer Team Task.

Factors that Students Considered

- What makes a good soccer team?
- What does it mean to make a team fair?

Connections to Students' Experiences

- Students may have played soccer or have family member who play.
- Students may have a favorite professional soccer team.
- Students may play another sport and know what it means for teams to be “fair”.

3rd Grade

Table: Soccer Player Information from First Day of Camp

Player Name	100 meter sprint time	Shots on Goal (out of 5 tries)	Defensive blocks
Annette	14.41 sec	score score score block block	2 2
Brianna	13.80 sec	score score wide block block	1 7
Chandra	14.95 sec	score score block wide wide	1 8
Danielle	14.23 sec	score score score wide wide	1 9
Ed	15.30 sec	score score score score block	2 7
Franco	15.65 sec	score score score score score	1 0
Gina	14.55 sec	score score block wide wide	2 3
Hamid	15.82 sec	score block wide wide wide	2 5
Ivan	14.51 sec	score score score block block	2 6
Jack	16.00 sec	score score score score wide	1 1
Kofi	15.15 sec	score score score score score	2 5
Lucas	13.62 sec	score score block wide wide	1 0



These students used the number of defensive blocks to make fair teams. They listed the number of blocks in order smallest to largest and then paired them (0,9), (0,8) (1, 7), (2,7), (3,6) and (5,5). Then they put the pairs of players represented by their defensive blocks with Team 1 made up of (0,9), (1,7), (3, 6) and Team 2 made up of (0,8), (2,7), (5,5).

Grade 4a

Dear coach Williams we can help with making a even team by splitting up the good players and the not so skilled players. ~~By~~ putting the skilled players and the not so skilled players on both teams. Also make sure there is a even numbers of players on both teams. And make sure you have a even number of goal keepers, defenders, offenders, and maybe sweepers.

These grade 4 students have advice for the coach but didn't actually explain how they would determine which players were skilled and which were "not so skilled". They did note that the teams should have an "even number of players on both teams." Unlike the 3rd grade response the 4th grade students also felt the coach should use the team members position to help create a fair team.

Explanation:

You can use the information by looking at the scores that each person has. Our group focused more on the speed, because a soccer ball player needs a lot of speed to be able to go from one side of the field to the other as quickly as they can. We numbered the scores from the 100 meter sprint, from 1-12 by fastest to slowest. Then, we had them all listed from fastest to least so we got one from the top of the list and one from the bottom of the list in group one then, the same for group two and so on. The method works because each group has mixed up players, not one group that has all the good players and one that has the not so good players. So the teams are fair.

Grade 4b

This 4th grade group used a method similar to the 3rd graders, but used speed to make their placements. In addition they explain their work in writing.

Grade 4c (1 of 2)

This 4th grade group first used methods described earlier, ordering the players by speed. They then include a second and third ranking related to goals and saves and considered the players different skill levels when creating their teams. For example, they placed the two top goal savers, Chendra and Danielle, in the position of goalie on different teams because they had the best save records. The students had a harder time explaining how they used speed and scoring rankings to place the other players on each team. They came up with the placements seen in the next slide.

Pt 2
Dear coaches,

We have heard of your soccer problem, so I took the time to help by creating fair teams. If you use this strategy, each player will be able to have a fair game. I will show you how it works by explaining each step and giving examples after.

First, we placed each player in orders based on how fast, making goals, and making blocks/saves. An example would be Gina who is the fastest runner made 5/5 goals, and is the third worst at making saves. Second, group each player into one category. An example would be Chen and Daniel, in the goalie since they made the most saves. The final step is to put them into 2 teams. Since Daniel and Chen made the most saves they'll be the goalie for each team. Hopefully if you use this strategy, you'll have a safe and fair game.

Sincerely,

Team 1		Team 2	
1 Chen	Goalie	1 Daniel	Goalie
2 Harid	1 defence	2 Kofi	1 defence
3 Brian	2 defence	3 Ed	2 defence
4 Lucas	1 middle	4 Franco	1 middle
5 Gino	2 middle	5 Jack	2 middle
6 Ivan	1 forward	6 Anton	1 forward

Grade 4c
(2 of 2)

These students used the different skills levels of each player to determine fair teams. They considered the players speed, shots on goals, and defensive blocks but gave more weight to one or more skills depending on the position they would play.