

Football Cards

Fred and Amber collect football cards.

They each have fewer than 60 cards.

They each put their cards in a scrap book.

Fred puts 4 cards on each page, except for one page that he puts 3 cards on.

If Amber had just one more card, she would have exactly 5 cards on every page.

List all the possibilities for the number of cards that George and Kate have.

If the children had the same number of cards, how many could they each have?

Learning and Teaching Objectives

- Have a system for finding all possibilities
- Organise the recording of possibilities (ordered list, table)
- Use a method of tracking what has been included and what has not
- Have a way of deciding when all possibilities have been found

Football Cards Solution

- *George* -
7,11,15,19,23,27,31,35,39,43,47,51,55,59
- *Kate* - 9,14,19,24,29,34,39,44,49,54,59
- 19,39,59