

## Primary Problem

### Multiple facts

The children play a game in class where they pick a number card up to 100, and write down all the numbers of which it is a multiple (not including 1 and the number itself)

1. Sam chooses a number card and writes down 2, 3, 4, 6. What number has Sam chosen?
2. Which numbers up to 50 are multiples of 2, 3, 4 and 6?
3. Sam says there are no numbers less than 100 that are multiples of 2, 3, 4, 5 and 6. Is Sam correct?
4. Sam's friend Andy has a number. He starts writing down numbers which have his number as a multiple. So far he has written 2, 4, 5. Which numbers up to 100 could it be?
5. Andy then writes 8, 10, 20. Now which numbers could it be?
6. Andy says all the numbers which are multiples of 8 and also multiples of 4. Is Andy correct? Explain your answer?

Problem taken from Problem-solving Toolkit Years 5 and 6 (Maths plus from Heinemann)