# Forming Expressions

For each situation

1. Define variables
2. Form an expression to answer the question.

### Section A: 2 variables

1. A football team scores some goals in the first half and some goals in the second half. How many do they score in total?
2. Charlotte buys a bag of apples from the supermarket. She eats some when she gets home. How many does she have left?
3. I buy a few bags of mars bars, each of which contains some mars bars. How many mars bars do I have?
4. Dylan buys a bag of sweets and shares it between his friends. How many do they get each?
5. A packet of M&Ms has the same number of sweets of each of seven colours. I share the sweets between some friends. How many sweets does each friend get?
6. I have some bananas to share equally amongst to my nieces. Unfortunately two of them are allergic to bananas. How many does each of the remainder get?
7. Lauren walks to the stadium, runs round the track there, then walks home again. What distance has she covered?
8. I buy a number of large trucks, each with the same number of wheels. After I crash one truck, and lose a wheel off another, how many wheels do I have left?
9. I travel for a certain distance in a particular time. What was my average speed?
10. I travel for some time at a constant speed. How far have I travelled?

### Section B: 3 variables

1. Zoe buys a bag of sweets and eats some before sharing the rest equally between her friends. How many does each of her friends receive?
2. Ella buys some apples and then gives the same number to each of her friends. How many does she have left?
3. Chocolate bars have been reduced from their original price by a certain amount in a sale. I buy some of these reduced chocolate bars. How much do I spend?
4. Theo has some money so he goes to buy some bananas, which each cost the same amount. How much change does he get?
5. The Hotel Mathematica has a certain number of floors and a fixed number of rooms on each floor. Currently there are some guests staying. How many rooms are empty?
6. Saliqa buys some sweets and divides them equally between her friends and herself. She then eats some. How many does she have left?

### Section C: More Variables

1. I go to a record shop and buy some CD’s and some Records. Each CD costs the same and each record costs the same. How much do I spend?
2. Daniel buys some guavas and some kumquats, which each cost different amounts. How much has he spent?
3. I eat some eggs, which each contain some fat and some sausages, which also contain some fat. How much fat have I consumed

### Section D

Write two questions (one easy, one hard) that require:

1. 2 variables
2. 3 variables
3. 4 variables
4. 5 variables

# Forming Expressions - Homework

1. Henry and Simon put all their coins in a pile. How many coins are there in the pile?
2. In a pack of wolves, each wolf has the same number of sharp teeth. How many sharp teeth are there in the pack of wolves?
3. A forest contains many trees. Some are burnt down in a forest fire. How many are left?
4. Aunt Rose shares some cans of cola amongst her nieces. How many does each receive?
5. My pet Afghan hound presently has a lot of hairs. He loses the same number of hairs every day. How many will he have left after a few days have passed?
6. I have some pound coins in my wallet. I buy a few magazines, each costing the same amount. How much change will I receive?