

# 3. Problem Solving

## CHALLENGE **A**

Calculate, store and display the total price of a dinner for two, given the price of a main course is £7.95, the price of a desert is £3.95 and the price of a drink is £2.90

### Extension

Make sure your program is flexible enough to cope easily with a different number of mains, deserts or drinks.

2 mains at £7.95 is £15.90  
2 deserts at £3.95 is £7.90  
5 drinks at £2.90 is £14.50  
Price of meal including drinks: £38.30

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## CHALLENGE **B**

Your iTunes account has a starting balance of £100.00. You buy three short tracks at £0.59, four medium tracks at £0.79 and 2 long tracks at 99 pence each.

### Extension

Display the starting balance, individual costs of tracks and your new account balance.

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## CHALLENGE **C** Extension for experts....

I have two bank balances, one contains NZ\$100, the other contains \$100 in US dollars. Write a money conversion to display your total worth in pounds sterling.

The exchange rate set at the time of writing was US 1.71 and NZ 1.97

US\$100.00 exchanges to £??

NZ\$100.00 exchanges to £??

### 3. Problem Solving

UK £ Balance: £????

Show all of your workings out, then modify the current program to today's current exchange rates.