## Percentage Profit

Profit is the difference between money coming in and costs.
If a company earns $£ 120,000$ but has costs of $£ 95,000$ then the profit is $£ 25,000$.
To calculate the percentage profit:
$\frac{25,000}{120,000} \times 100=20.83333=21 \%$

## Interest

When you put money in a bank, the bank will usually pay interest. This is a percentage usually about $2 \%$ to $5 \%$. There are two ways interest can be calculated.

## Simple Interest

This is a fixed amount of interest paid annually. It is usually a percentage of the amount of money.
Calculate the Simple interest on $£ 6,000$ invested for $\mathbf{3}$ years at an interest rate of $\mathbf{4 \%}$.
Find $4 \%$ of $£ 6,000$

$$
\frac{4}{100} \times 6000=0.04 \times 6000=240
$$

$£ 240$ is the annual interest the bank will pay you. You earn this for each of the 3 years.

$$
£ 240 \times 3=£ 720
$$

Total interest is $£ \mathbf{7 2 0}$, and the investment is now worth $£ 6,720$

## Compound Interest

You receive interest on the money in the account, including interest on previously earned interest.
Calculate the Compound interest on $£ 6,000$ invested for 3 years at an interest rate of $\mathbf{4 \%}$.

The amount increased by 4\%. A 4\% increase is 104\%
To find $104 \%$ of a number, multiply by $\frac{104}{100}=1.04$.

$£ 6,489.60 \times 1.04=£$
Total after three years

Total interest is $£ 749.18$, and the investment is now worth $£ 6,749.18$

