1. Calculate the gross profit on our snowboard

Formula: Price minus cost

```
In [3]: snowboard_price = 499.99
    snowboard_cost = 199.99
    gross_profit = snowboard_price - snowboard_cost
    print(gross_profit)
```

300.0

2. Calculate the gross margin on our snowboard

Formula: Gross profit divided by price

```
In [5]: gross_margin = gross_profit / snowboard_price
    print(gross_margin)
```

0.6000120002400048

3. Calculate the price needed to obtain a gross margin of 70%

Formula: cost divided by (1 minus the desired margin).

```
In [6]: snowboard_cost / (1-0.7)
Out[6]: 666.6333333333332
```

4. Calculate the sales tax on a sale of our snowboard

Tax rate: 8%

Formula: Price times tax rate

```
In [9]: tax_rate = .08
sales_tax = snowboard_price * tax_rate
print(int(sales_tax))
```

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5. Return on Profits

Calculate the amount of money we'd have if we invested the profit from selling 5 snowboards for one year.

Assume an interest rate of 5%.

The formula is the amount_invested plus (amount_invested times interest_rate)

In [14]:	<pre>amount_invested = gross_profit * 5 interest_rate = 0.05</pre>
	<pre>amount_after_1yr = amount_invested + (amount_invested * interest_rate)</pre>
	<pre>print(amount_after_1yr)</pre>
	1575.0
In [*]:	
In [*]:	
In []:	