# Access Award in Business Skills

# Lesson 3 – Using Numbers in Business

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## **Rounding Numbers**

- In your assessment, you will be required to round numbers
- This could be:
- To the nearest whole number (e.g. £350)
- To one decimal place (e.g. £4.5 million)
- To two decimal places (e.g. £6.25)
- Note: VAT figures must be rounded down to the nearest penny

#### **Basic Numerical Calculations**

Addition

Subtraction

Multiplication

Division

#### **Calculating Profits and Losses**

- In your assessment it is likely that you will have to use your addition and subtraction skills along with your accounting knowledge to calculate profits and losses
- Cash Sales where money is received at the same time that the sale is made e.g. buying goods in a shop
- Credit Sales where money is received after the sale is made e.g. a business might sell goods on 30 day credit terms which means it gets paid 30 days after the date of sale

#### Calculating Profits and Losses

- Cost of Sales the cost of producing the goods that are sold or the cost of buying in the goods that are sold
- Gross Profit the amount of money left after deducting the cost of sales (sales minus cost of sales equals gross profit)
- Expenses all other costs of the business e.g. motor expenses, accountancy fees and rent paid
- Net Profit or Net Loss the amount of money left after deducting all costs (gross profit minus expenses equals net profit or net loss)

#### Fractions

- Fractions are a way of showing a part of the whole number
- The top half of the fraction is called the <u>numerator</u> (the 'part')
- The bottom half of the fraction is called the <u>denominator</u> (the 'whole')
- For instance, if you buy a pizza with a friend and have half each, your half would be written as ½ and shows that you have had one of the two halves
- Fractions should be written in their lowest possible terms

#### Ratios

- Ratios give the same information as fractions, but show it in a different way – they show one thing compared to another
- For instance, in a school 35 students take GCSE Art and 20 students take GCSE Music – what is this expressed as a ratio?
- The ratio can be initially shown as 35 : 20 (thirty-five to twenty)
- Ratios should be shown in their lowest common form
- The ratio above would therefore become 7: 4 (seven to four)

## **Calculating Averages**

- Range the range is the difference between the highest and lowest items of data in a set of data
- Mode the mode is the item of data that appears the most frequently in a set of data
- Mean the arithmetical average of all of the items of data in a set of data. This is calculated by adding together all of the data values and dividing the total by the number of items of data you have added together

#### **Estimation and Rounding**

- It can be sometimes be difficult to perform calculations without the use of a calculator
- To make things easier, we can use estimates and rounding
- For instance, if we had to calculate the cost of supplying 893 items at £10.14 each, we could estimate the cost by working out 900 items at £10 each, which comes to £9,000
- The actual cost of supplying these items is £9,055.02 which makes it very likely that our detailed calculation is correct