Name of Student: Assignment No:

Question No.1

The list price for a radio is 22% higher than its net price. If the net price is \$29.00, what is the list price? What is the amount of the trade discount?

Answer-1

Net price of Radio= \$29 List price is22 % higher i.e. List price/ Net price = 122/100 Therefore List price = 122/100 * 29 The calculation is accomplished as below:

List Price	\$ 35,38
Net Price	\$ 29,00
Trade discount (amount)	\$ 6,38
Trade discount (percentage)	18,03%

Question No.2

A certified public accountant discounts a bill to \$294.00 when a client pays in cash, within 10 days. If the cash discount is 1.5%, how much would the customer have paid if he or she had not been eligible for the discount? Report the result to the nearest penny.

<u>Answer- 2</u>

Discount = Bill amount * 1.5/100 Bill amount = Discounted value + Discount = Discounted amount + Bill amount * 1.5/100 Discounted value = Bill amount (1-1.5/100) = Bill amount * 98.5/100 or: Bill amount = Discounted value * 100/98.5

The above calculation is accomplished in Excel worksheet as below:

Un-discounted bill	\$ 298,48
Percentage discount	1,50%
Discounted bill amount	\$ 294,00
Amount of discount	\$ 4,48

Question No.3

Bill's Accounting is taking out a lease on \$2,000 worth of computing equipment and office furniture, over a two year period. The bank charges 8.25% interest annually. Compute the interest paid and the total amount paid for the lease.

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<u>Answer- 3</u>

Principal repaid at the end of the period

Principal for first year as well as second year = 2000Annual Interest is calculated by the formula: I = P * r / 100 Where 'r' is the annual rate of interest Here 'r' = 8.25 Therefore annual interest of 2000 is: 2000 * 8.25/100 = Interest for 2 years = Annual interest * 2

The above calculation is accomplished in Excel worksheet as below:

Amount of loan	\$ 2 000,00	
Annual interest	\$ 165,00	
Interest for 2 years		\$ 330,00
TOTAL AMOUNT PAYABLE		\$ 2 330,00

Question No.4

You need to borrow \$5,000 for 2.33 years. Originally, the bank offers a 6.5% rate. Then, after some negotiation, they are willing to drop the rate to 5.5%. What savings in interest will you have as a result of the rate reduction?

Answer- 4

Annual Interest is calculated by the formula: I = P * r / 100Where 'I' is the interest amount and 'r' is the annual rate of interest Here 'r' = 6.5 in one case and 5.5 in the other case

Principal amount	\$ 5 000,00
Period (Years)	2,33
Original interest rate (Percent)	6,50%
Negotiated interest rate (Percent)	5,50%

Annual interest (case-1) = 5000 * 6.5/100= Say 'x" Interest for 2.33 years = 'x" *2.33 Annual interest (case-2 = 5000 * 5.5/100= Say 'y" Interest for 2.33 years= 'y' * 2.33

Calculation in Excel Wor	ksheet									
			Anı	nual Int.	An	nual Int.	Annu	al	Savi	ngs for
				6,50%		5,50%	savin	gs	2.33	years
Principal amount	\$	5 000,00	\$	325,00	\$	275,00	\$	50,00	\$	116,50

Question- 5

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A consumer loan is made at 10.0% over a 3.5 year period. If \$2,125 in interest is paid, what is the principal? What is the total amount paid by the consumer? Report the results to the nearest penny.

Answer- 5

The amount payable against a loan taken on simple interest is given by the following equation

I = P * r / 100 * nWhere *P* is the principal *r* is the principal *n* is the rate of annual interest, and *n* is the period in years
Based on above equation ' P ' = {' I '/ (r/ 100)} / n = (100 * ' I ' / r) / n
i.e.: = 'I' * {(100 * 2125 / (10/100)} / n = 2125 * 10 / 3.5

Principal amount (?) = 'P'Rate of interest= 10% p.a Period of loan= 3.5 years

THE ABOVE IS ACCOMPLISHED IN EXCEL AS BELOW:

Rate of interest	10,00%	
Period of loan (years)	3,50	
Interest paid	\$ 2 125,00	
Principal amount (?) = 'p'	\$	6 071,43