**Assignments**

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**Subject Business Mathematics**

**Semester 2nd**

**Submitted to Dr. Liaqat Ali**

**Question No 1**

Solution



**Question No 2**

**How much each expense cost to company?**

Solution

So, the expenses of light =

**Expenses of light = 270**

**Now the expenses of heat?**

Expenses of Heat =

For simplification first we will multiply 1080 by 3 and then the total of them will be divided by 4

* 3240
* = 810

**Expenses of heat = 810**

**For Verification: 810+270 = 1080**

**Question No 3**

**Solution**

*For convenience employees are given ordinal numbers*

*1st Employee have 7 Ratio*

*2nd Employee have 4 Ratio*

*3rd Employee have 2 Ratio*

*4th Employee have 5 Ratio*

*To find out the amount received by each employee*

*Sum of Ratios 7+4+2+5 = 18*

*Share of 1st Employee*

*Multiply 540 with 7 and then the total figure is divided by 18*

***Amount of 1st employee = RS 210***

*Share of 2nd employee*

*Multiply 540 with 4 and then the total figure is divided by 18*

* *=120*

***Amount of 2nd employee= RS 120***

*Share of 3rd employee=*

*Multiply 540 with 2 and then the total figure is divided by 18*

***Amount of 3rd Employee = RS 60***

*Share of 4th Employee-=*

*Multiply 540 with 5 and then the total figure is divided by 18*

***Amount of 4th Employee=150***

***Note: Verification***

**Question No 4**

According to 1st Condition

According to 2nd Condition

* **→ Equation 2**

**Now subtracting equation 2 from Equation 1**

Now to find out we will put value of

**Question No 5**

Solution

Let the age of girl =

Age of brother =

3 Years ago

Since the Girl was 4 times

Now subtracting equation 1 from Equation 2

**Put in Equation 2**

**Years**

**Question No 6**

Let the two numbers

According to the condition

**→ Equation 1**

Now Adding Equation 1 in Equation 2

Now put in Equation 1

**Verification**

Put

Hence Proved

So the two numbers are 36 and 48

**Question No 7**

List price =$150

Trade discount =20%

Net cost

**Solution**

As we know that list price is the suggested retail price of product at which manufacturer recommend that the retail sell the product. So,

***Net cost***

**Net Cost**

**Question No 8**

List Price

(Series discount)

Net Cost

**Solution**

Discount Series

Now we will write the complaints as discount

So

Net decimal equivalent

Now

Net Cost

**Question No 9**

Selling Price

Solution

As we know that

Markup

**Question No 10**

Selling Price (Aspirin)

Cost Price

**Markup Percent on Cost?**

Solution

As we know that

Markup%

**Question No 11**

Markup

Cost

**b) Selling price**

Solution

As we have formula

By cross multiplications

**Selling Price**

**a) Selling Price as Percentage of cost?**

Selling Price

Percentage of cost

So,

Selling price as % of cost or 5.67%

c) Markup