Teacher Name: Ambreen Badar Class: 9 Subject: Mathematics Date: 2nd Feb’ 2018

Topic: Percentages

Q1: a)

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| --- | --- |
| **Washing Machine****$980** | **Finance offer**Pay a 20 % depositeAnd24 monthly payments of $36 each |

 Lavin decides to buy this washing machine. How much more would it cost Lavin if he paid for

 the washing machine using the finance offer instead of paying te $980 immediately?

 b) Asif deposites $650 into a bank paying simple interest. He leaves the money there for 5yrs. At

 the end of 5 yrs, the amount in the bank is $763.75 . Calculate the percentage rate of interest the

 bank paid per year.

Q2: a) Lily bought a car for $ 13500. She paid for it in 36 equal monthly payments. Calculate the

 amount she paid each month.

 b) George bought a car for $27000. He borrowed the $27000 at 15% per year simple interest for

 3yrs. He repaid the total amount in 36 equal monthly payments. Calculate the amount he paid

 each month.

Q4: A shopkeeper buys some plates from a manufacturer for $10 each.

1. a) The shopkeeper sells a plate for $12. Calculate the percentage profit.

b) The shopkeeper buys 240 plate and sells 180 at $12 each. The rest were sold to a café

 for a total of $540. Calculate the percentage discount given to the café.

1. The manufacturer made a profit of 60% when he sold each plate for $10. Calculate the cost of manufacturing each plate.

Q5 : Aisha buys a new car.

|  |  |
| --- | --- |
| **Cash Price****$4500** | **Credit terms**Deposite: 25% of cash price**+**12 monthly payments of $320 |

 She buys the car using the credit terms. How much more the cash price will she pay overall for the

 car?

Q6: a)

1. The cost price of the bicycle A is $620. The shopkeeper sells it and make a profit of 45%.

Calculate the selling price.

1. In a sale, the price of bicycle B is reduced from $2400 to $ 1596. Calculate the percentage reduction given.
2. Tax on the original price of the bicycle C is charged at 20% of the original price. After tax has been included, Matthew pays $1080 for this bicycle. Calculate the original price.

b) Ada invests $600 in an account that earns simple interest. At the end of 3yrs, the

 investment is worth $681. Calculate the rate of simple interest per year.

Q7: In 2013, Mary worked for company A. Her salary for the year was $18750.

1. $5625 of her salary was not taxed. What percentage of ner salary was not taxed.
2. The remaining $13125 of Mary’s salary was taxed. 22% of his amount was deducted for tax. Mary’s take-home pay was the amount remaining from $18750after tax had been deducted. She received this in 52 equal amounts as a weekly wage. Calculate Mary’s weekly wage.
3. In 2012Mary had worked for company B when she moved from company B to company A , her salary increased by 25% to $18750. Calculate her salary when she worked for company B.