

The City School
North Nazimabad Boys Campus
Subject: Mathematics



Name: _____ Class: 9th Date: _____

Q1.

- a) The cost price of bicycle A is \$620. The shopkeeper sells it and makes a profit of 45%. Calculate the selling price.
- b) In a sale, the price of bicycle B is reduced from \$2400 to \$1596. Calculate the percentage reduction given.
- c) Tax on the original price of 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.

Q2. Ada invests \$600 in an account that earns simple interest. At the end of 3 years, the investment is worth \$681. Calculate the rate of simple interest per year.

Q3.

Account	Simple Interest per year
Super Saver	3.4%
Extra Saver	3.5%

On 31 March 2011, Lydia and Simone each had \$8000 in an account. Lydia's money is in a Super Saver Account. Simone's money is in an Extra Saver Account.

- i) How much money did Lydia have in her account on 31 March 2012 after the interest had been added?
- ii) On 31 March 2012, Lydia transferred this money to an Extra Saver Account. How much money did she have in this account on 31 March 2013 after the interest had been added?
- iii) Simone kept her money for the two years in the Extra Saver Account, which earned simple interest of 3.5% per year.
After all interest had been added, who had more money in their account on 31 March 2013 and by how much?

Q4.

- a) Lily bought a car for \$13 500. 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 3 years. He repaid the total amount in 36 equal monthly payments. Calculate the amount he paid each month.

Q5. James and Dan are partners in small company. From each year's profit, James is paid a bonus of \$15000 and the remainder is shared between James and Dan in the ratio 2 : 3.

- a) In 1996 the profit was \$20,000. Show that Dan's share was \$3000.
- b) In 1997 the profit was \$ 21800. Calculate:
 - i) The percentage increase in the profit in 1997 as compared to 1996.
 - ii) The total amount, including his bonus, that James received in 1997.
 - iii) In 1998 Dan received \$7500. Calculate the profit in 1998.

Q6.

<p>Washing Machine</p> <p>\$ 980</p>
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<p><u>Finance offer</u></p> <p>Pay a 20% deposit</p> <p>And</p> <p>24 monthly payments of</p> <p>\$36 each</p>

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 the \$980 immediately?

Q7. The shop sold a Home Entertainment system to Leslie for \$46480. The shop made a profit of 12% on the price it paid for the system. Calculate how much the shop paid for the system.

Q8. The basic price of the 2016 model of a car is \$21000. Sayeed and Rasheed each buy this model car.

- i) Sayeed pays a deposit of \$756. Calculate the deposit Sayeed pays as a percentage of the basic price.
- ii) He then pays 24 monthly instalments of \$922.25. Calculate the total amount that Sayeed pays as a percentage of the basic price.
- iii) Rasheed pays a deposit of \$381 followed by 36 equal monthly payments. The total amount that he pays is 127% of the basic price of \$21000. Calculate Rasheed's monthly payment.
- iv) \$21000 represented an increase of 5% on the basic price of the 2015 model. Calculate the difference between the basic prices of 2015 and 2016.