

Riviera International Academy

Assignment-2077

(Shrawan 22, 2077, Thursday)

Class: Ten

Subject- Mathematics

Source: Photo of exercise are given below

Work: Complete exercise 4.2

Do your work neatly

Population Growth and Depreciation

EXERCISE 4.2

General Section

- If the original value of a printing machine is P and the rate of compound depreciation is $R\%$ p.a., write the formula to calculate the depreciated value of the machine after T years.
- Write the formula to calculate the amount of depreciation of a motorbike in T year, if the initial price of the bike is P and the rate of compound depreciation is $R\%$ p.a.
- The rates of compound depreciation of a printing machine in 3 years are $R_1\%$, $R_2\%$ and $R_3\%$. If the initial value of the machine is P , write the formula to calculate its value after 3 years.
- The value of a machine is Rs 4,50,000. If its value is depreciated by 7% every year, find its value after 1 year.
- After the depreciation at the rate of 15% p.a., the value of a vehicle became Rs 13,26,000 after one year. Find the original value of the vehicle.
- At what rate of depreciation is the price of a building reduced to Rs 22,84,200 from Rs 24,30,000 in 1 year?

Relative Section

- If the value of a laptop which was bought for Rs 61,200 depreciates at 10% annually, find its value after 2 years.
- A set of office furniture costing Rs 96,000 is depreciated at the rate of 5% per year. What will be its cost after 3 years?
- The value of a machine is depreciated every year by 10%. What will be the value of the machine worth Rs 1,80,000 after 3 years?
- Mr. Ghising bought a tripper for Rs 28,08,000. He used it for transporting construction materials and earned Rs 7,80,000 in 2 years. If he sold it at 15% p.a. compound depreciation, find his profit or loss.
- If the cost is depreciated at the rate of 12% per annum, the cost of a photocopy machine becomes Rs 69,696 after 2 years. Find the original price of the machine.
- If the cost is depreciated at the rate of 20% per annum, the cost of a tractor after 3 years becomes Rs 9,21,600. Calculate the original price of the tractor.
- Mrs. Kandel sold a scooter for Rs 1,12,999 in the system of compound depreciation at the rate of 15% p.a. If she had purchased it 3 years before, how much did she pay for it by that time?
- The compound depreciation of shares of business company for 2 years is at the rate of 2.5% p.a. If the present value of certain number of shares is Rs 45,630, how many shares at Rs 200 per share were sold before 2 years?
- The original value of a computer is Rs 96,000. If it is depreciated by 15% every year with the compound depreciation, by how much is its value depreciated in 3 years?

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Population Growth and Depreciation

- b) Mr. Mahato bought a building for Rs 25,20,000. He sold it after 3 years at the rate of compound depreciation of 10% p.a. By how much was the value of the building depreciated?
6. a) The original price of a furniture is Rs 40,000. If the rate of depreciation is 5% per annum, after how many years will its price become Rs 36,100? **Tick the**
- b) A machine was bought for Rs 4,00,000 some years ago and now its value is Rs 1,96,000. If the value of the machine is depreciated at 30% p.a. compound depreciation when was the machine bought? **1. If the disco**
- c) A few years ago a man bought a computer for Rs 1,25,000. In the recent year, he sold it for Rs 64,000 at 20% annual rate of depreciation. How long did he use the computer? **(A) 16**
- d) Maya Limbu bought a television for Rs 64,000. In the recent year, she sold it for Rs 46,240 at 15% annual rate of compound depreciation. How long did she use the television? **2. A st book sam**
7. a) A mobile costing Rs 6,000 is depreciated per year and after 2 years its price becomes Rs 5,415. Find the rate of depreciation. **(A)**
- b) If the value of an electric item depreciated from Rs 18,000 to Rs 14,580 in two years, find the rate of depreciation. **3. The tw**
- c) Binju bought an iPad for Rs 1,20,000 and after using it for 3 years, she sold it for Rs 61,440. Find the rate of compound depreciation of the iPad. **4. W**
- d) The value of a motorbike is depreciated from Rs 2,50,000 to Rs 1,70,368 in 3 years. Find the rate of depreciation. **5. If**
8. a) Mr. Chhetri bought a scanner machine 3 years before for Rs 40,000. If the value of the machine is depreciated by 5%, 8% and 10% in the first, second and in the third year respectively, at what price did he sell the machine at the end of 3 years? **6. 1**
- b) The present value of an asset is Rs 7,20,000. If its value is depreciated by 7% in the first year, 10% in the second year and 15% in the third year, find its value after 3 years. **7. 1**

Project work

- a) Make the different groups of your friends. Visit different showrooms or shops where the second-hand vehicles are sold. Also visit different companies and organisations where the second-hand electronic items, electrical machines, vehicles, etc. are for sale. Ask the original price and the second-hand price of those items and calculate the rate of depreciation. Also calculate the profit or loss percent by selling those items. **7.**
- b) Visit the available website and search the rates of depreciation of different types of materials such as machinery items, vehicles, furniture, buildings, etc. Do these materials have the same rate of depreciation? **8.**

Subject- HPE

1. Answer question A (very short answer questions) and question B (short answer questions) of Unit 1, page 14. (Readmore Publication)

Subject- Science

Give Reasons of the following:

1. Aluminium is p-block element but magnesium is a s-block element.
2. Chlorine is more reactive than bromine.
3. Electro-negativity decreases from top to bottom across a group.
4. Group-VIIA elements are called very active non-metals.
5. Lanthanides and actinides are kept below the periodic table.
6. Valency of elements of group IA and VIIA is one.

विषय - नेपाली

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The End.