## 10. Compound Interest

## I. Choose the correct option.



- 1. The simple interest on ₹ 1000 at 5% p.a. for 3 years is
  - a. ₹50
- b. ₹200
- c. ₹100
- d. ₹150
- 2. The compound interest on ₹ 2000 at 10% per annum for 2 years is
  - a. ₹420
- b. ₹400
- c. ₹410
- d. ₹2420
- 3. The time period and rate for a sum taken at 8% for  $1\frac{1}{2}$  years compounded half yearly are
  - a. n = 6, R = 4%
- b. n = 3, R = 4%
- c. n = 3, R = 8%
- d. n = 3, R = 2%
- 4. The difference between the compound interest and simple interest on ₹ 500 at 10% per annum for 1 year is
  - a. ₹20
- b. ₹10
- c. ₹0
- d. ₹50

## II. Do as directed.



1. Find the amount and compound interest in the following cases.

	Principal (in ₹)	Rate % (p.a.)	Time (in years)
a.	1000	5%	3
b.	360	20%	2
c.	3000	10%	3

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_
- 2. Find the compound interest on ₹ 20,000 at 15% p.a. for  $1\frac{1}{2}$  years.

## III. Solve the following.





	annually.
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7	What sum of money will amount to ₹ 9261 at 5% p.a. compound interest after 3 years?
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4	At what rate of compound interest will ₹ 20000 become ₹ 24200 after 2 years?
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	Find the principal which will amount to ₹ 4500 in 2 years at the rate of 4% p.a. compoun annually.
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3.	be the value of the land after 3 years?		
Sol	ve the following.		
1.	The present population of a town is 32,400. For the past two years, the population has been decreasing at the rate of 10% per annum due to people migrating to other cities. What was the population 2 years ago?		
2.	In the year 2017, the number of malaria patients admitted in the hospital of a state was 4375 Every year this number decreases by 8%. Find the number of patients in 2019.		
3.	The compound interest on a sum of money for 3 years at 10% p.a. is ₹ 264.80. Find the simple interest for the same sum for the same time at the same rate.		

4.	George deposited a sum of ₹ 10,000 with a company for 6 months. The company credits the interest quarterly in his account at 20% p.a. How much interest did he get?		
5.	Latika borrows a sum of ₹ 12,500 at 12% p. a for 3 years at simple interest and Radha borrow the same amount for the same period at 10% p.a., compounded annually. Who pays mo		
	interest and by how much?		
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ier's	Signature: Date:		