## Simple and Compound Interest



Placement for All., All for Placement

This Video Completely covers Simple and Compound Interest which is more than sufficient for all kind of placement Exams eg: TCS/WIPRO/AMCAT/ELITMUS/CoCubes and all other placement Exams.

SI & CI by: Pratik Shrivastava(10 years of industry experience and awarded as best Aptitude trainer)

## Simple and Compound Interest

Q1. What would be the simple interest obtained on an amount of Rs. 1200 at the rate of 10% per annum after 6 yrs.?

- a) Rs.840

- (b) Rs.720 c) Rs.950 d) Rs.1089 e) None of these

Solution:

P: 1200

TOO 720

SI: PXTXt / P: Principal
100 r: rate of interest SI: 1200x10x6 = time

# Simple and Compound Interest

Q2. What would be the simple interest obtained on an amount of Rs. 6535 at the rate of 10% per annum after 6 yrs.?

- a) Rs.3414

- b) Rs.3921 c) Rs.3807 d) Rs.3149 e) None of these

Solution:

1307 6535 ×10×63 : 3921

- Q3) What would be the simple interest obtained on an amount of Rs. 5760 at the rate of 6% per annum after 3 yrs.?
- a) Rs.1036.80
- b) Rs.1063.80 c) Rs.1336.80 d) Rs.1666.80 e) None of

Solution:

$$S T = \frac{P \times 8 \times t}{100} = \frac{5760 \times 6 \times 3}{100}$$

$$= \frac{18 \times 576}{10}$$

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$$= \frac{18 \times (500 + 10 + 6)}{10}$$

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#### Simple and Compound Interest

Suppose you deposit 100rs to the Bank on SI at rate of 10% for 3 years.

Difference between Simple and Compound Interest

Total 30rs interest bank will give you after 3years.

#### Simple interest is always calculated on principal.

Suppose you deposit 100rs to the Bank on CI at rate of 10% for 3 years.

\_\_\_\_\_\_

SI = CI 1 year

Where

P = Prinicipal

n/T = Time

R= Rate

Total 33.1rs Interest bank will give you after 3years.

Compound interest is always calculated on Amount

#### Simple and Compound Interest

### Simple Interest Formula:

$$SI = (P * R * T)/100$$

#### Compound Interest Formula:

$$CI = P (1 + r/100)^n - P$$

$$A = CI + P$$

$$CI = A - P = \rightarrow A = (1 + r/100)^n$$

Now, In the Questions it might have told, Mr X invested an amount/Sum/money

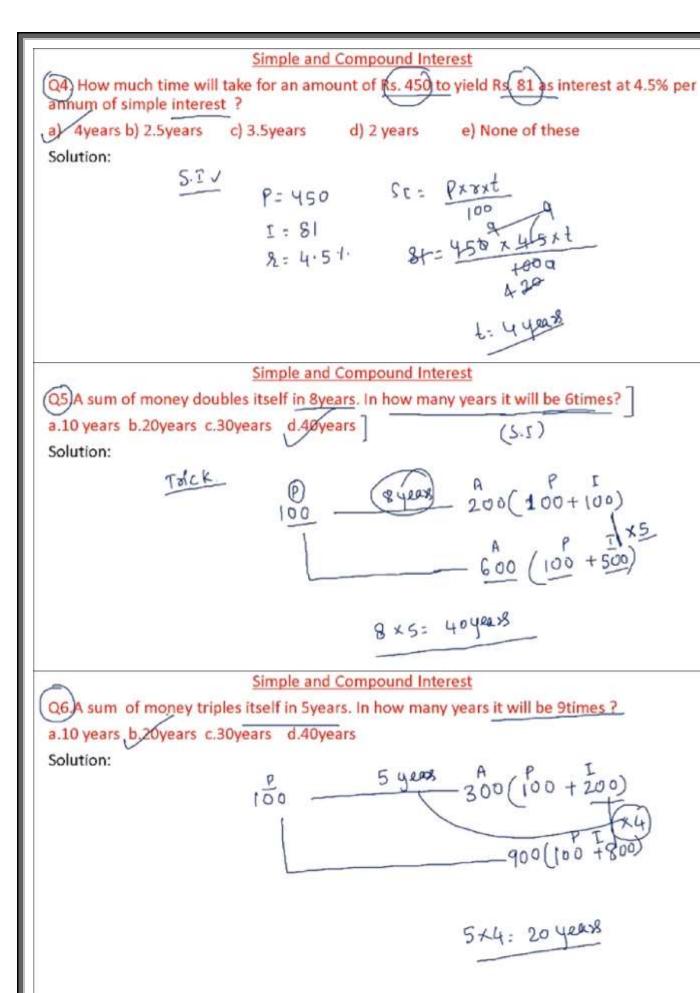
Any kind of Investment --→ That means Principal

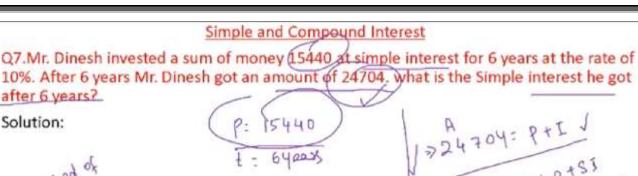
Now What is Amount: Suppose u invest 1000rs and you get a interest of 100rs,

then at the end of 1 year you get: P(1000) + I(100) = A(1100)

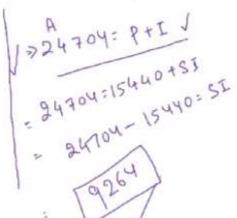
So Amount will be always

Amount = Principal + SI/CI





Any kind of ment



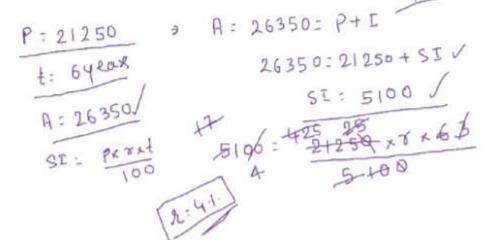
# Simple and Compound Interest

Q8 Mr. Deepak invested an amount of Rs.21,250/- for 6yrs. At what rate of simple interest will he obtain the total amount of Rs. 26,350/- at the end of 6yrs.?

a)6p.c.p.a b)5p.c.p.a c)8p.c.p.a d)12p.c.p.a e) None of these

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Solution:

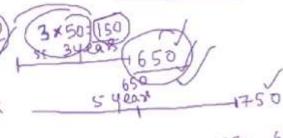


## Simple and Compound Interest

Q9 A sum of money at Simple Interest amounts to Rs.650 in 3 years and Rs.750 in 5 years. What is the principal?

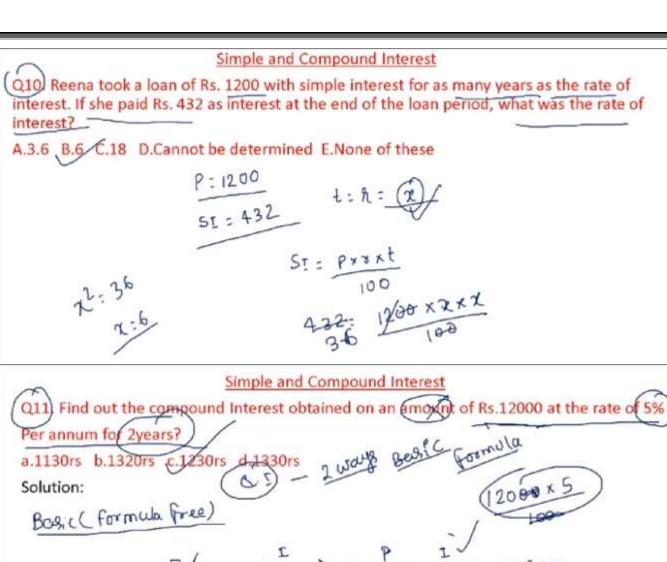
Solution:

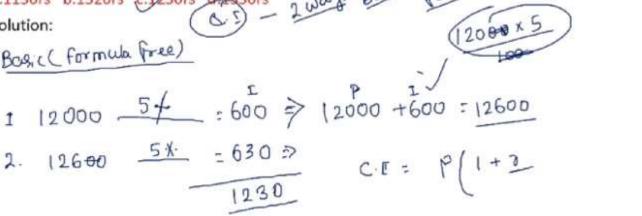
P-1500/ X -



2 year - 150 - 650 = 100

x = 650-150 = 5001





Q12. Find out the compound Interest obtained on an amount of Rs.10000 at the rate of 7% Per annum for 2years? a.1130rs b.1320rs c.1230rs (d.1449rs

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Per annum for 2years?

a.1130rs b.1320rs c.1230rs d.1449rs

Solution:

$$CI: 3 \times 10.000 \times 7 + \frac{10.000 \times 7}{100} \times \frac{7}{100}$$

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## Simple and Compound Interest

Q13) What would be the compound interest obtained on an amount of Rs. 4000/- at the rate of 5% per annum after 3 yrs.? a) Rs.612/- b) Rs.578/- c)Rs.525.5 d)Rs.630.5 e) None of these

Solution:

$$\frac{1}{3} \sqrt{4000} \frac{51}{51} = 200 \left[ A - 4000 + 200 - 4200 \right]$$

$$\frac{34209}{34209} + 4200 \frac{51}{10} = 210 \left[ A - 4200 + 210 - 4410 \right]$$

$$\frac{34209}{10} + 410 \frac{51}{10} = \frac{220.5}{630.5}$$

$$\frac{630.5}{10}$$

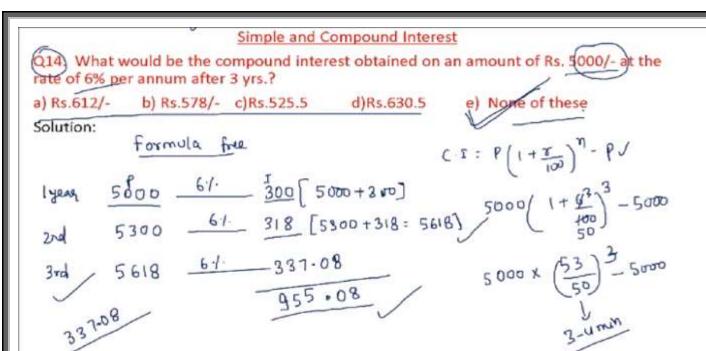
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Solution:

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$$3 \times \frac{40.06 \times 5}{100} + 3 \times \frac{10.00 \times 5}{100} \times \frac{5}{100} \times \frac{5}{$$



Q15 The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum is:

A. Rs.600

B. Rs.645

C. Rs.525

D. Rs.625

Solution:

$$\int \left[ (S \cdot I) - (C \cdot I) \right]_{2} = \frac{\rho_{x}^{2}}{|V \circ V|}$$

$$1 = \frac{\rho_{x} y \cdot y \cdot y}{|V \circ V|}$$

$$2S \cdot 2S$$

$$\rho = 625$$

## Simple and Compound Interest

Q16. The difference between simple interest and compound interest on a certain sum of money for three years at 10% per annum is Rs. 15 and paise 50. The sum is:

(a)Rs. 5,000 (b)Rs. 550 (c)Rs. 5,500 (d)Rs. 500 (e)Rs. 1,500

Solution:

