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# Date Interpretation Table Chart Questions for Bank Clerk Mains and PO Pre Exams.

## DI Table Chart Quiz 39

Direction: Study the following table carefully and answer the questions based on it.

Schemes	Type of Interest	Principal	% of Rate	Years	Amount
A	Simple Interest	22000	-	4	35200
B	Compound Interest	-	10%	2	30250
C	Compound interest	10000	20%	-	17280
D	Simple interest	22500	12%	-	29250
E	Compound interest	27500	16%	2	-

1. Sajal invested double money of scheme A in scheme F at C. I. and at the end of 3 years he received Rs 14564 as interest. Find the rate of interest of scheme F.

- A. 8%      B. 10%      C. 12%      D. 15%      E. None of these

2. For how much time did the money invest in scheme D?

- A. 4.5 years      B. 5 years      C. 2.5 years      D. 3 years      E. 4 years

3. If the ratio of the interest rate of scheme G to that scheme C is 5 : 4 and at the end of 2 years the interest received by a person in scheme G at simple interest is Rs 9750, find the principal.

- A. Rs 22500      B. Rs 25200      C. Rs 15500      D. Rs 19500      E. None of these

4. What is the difference between the Compound interest and Simple interest of Scheme B at the end of 2 years?

- A. Rs 300      B. Rs 250      C. Rs 350      D. Rs 400      E. Rs 500

5. What is the total interest earned by a person by investing amount in all the schemes for the time given?

- A. Rs 45200      B. Rs 53620      C. Rs 48965      D. Rs 40230      E. None of these

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
B	C	D	B	E

**Explanations:**

**1.** Principal =  $2 \times 22000 = \text{Rs } 44000$ , Interest = Rs 14564, time = 3 years  
Amount =  $44000 + 14564 = \text{Rs } 58564$

$$A = P \left(1 + \frac{r}{100}\right)^n$$

$$58564 = 44000 \left(1 + \frac{r}{100}\right)^3$$

$$\frac{58564}{44000} = \left(1 + \frac{r}{100}\right)^3$$

$$\frac{1331}{1000} = \left(1 + \frac{r}{100}\right)^3$$

$$\frac{11}{10} = 1 + \frac{r}{100}$$

$$\frac{r}{100} = \frac{1}{10}$$

$$r = 10\%$$

Hence, option B is correct.

**2.** Principal = Rs 22500, rate = 12%, Amount = Rs 29250, S.I. =  $29250 - 22500 = \text{Rs } 6750$

$$\text{S.I.} = P \times r \times \frac{t}{100}$$

$$6750 = 22500 \times 12\% \times t$$

$$t = 2.5 \text{ years}$$

Hence, option C is correct..



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**3.** Interest rate of G : interest rate of C = 5 : 4

$$\text{Interest rate of G} = \frac{20}{4} \times 5 = 25\%$$

S.I. = Rs 9750, time = 2 years

$$\text{S.I.} = P \times r\% \times t$$

$$9750 = P \times 25\% \times 2$$

$$9750 \div 25\% \div 2 = P$$

$$P = 19500$$

Principal = Rs 19500

Hence, option D is correct.

**4.** Amount = Rs 30250, time = 2 years, interest rate = 10%

$$A = P \left(1 + \frac{r}{100}\right)^t$$

$$30250 = P \left(1 + \frac{10}{100}\right)^2$$

$$30250 = P \left(\frac{11}{10}\right)^2$$

$$30250 = P \times \frac{121}{100}$$

$$P = 25000$$

$$\text{Difference} = P \left(\frac{r}{100}\right)^2$$

$$\text{Difference} = 25000 \left(\frac{10}{100}\right)^2$$

$$= 250$$

Difference between C.I. and S.I for 2 years is Rs 250.

Hence, option B is correct.

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5. Interest of scheme A = 35200 – 22000 = Rs 13200

Interest of scheme B,

$$A = P \left(1 + \frac{r}{100}\right)^t$$

$$30250 = P \left(1 + \frac{10}{100}\right)^2$$

$$30250 = P \times \frac{121}{100}$$

$$P = 25000$$

Interest of scheme B = Rs 5250

Interest of scheme C = 17280 – 10000 = Rs 7280

Interest of scheme D = 29250 – 22500 = Rs 6750

Interest of scheme E,

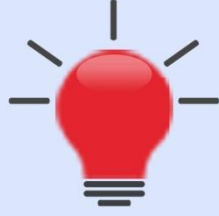
$$\begin{aligned} \text{Interest} &= P \left(1 + \frac{r}{100}\right)^t - P \\ &= 27500 \left(1 + \frac{16}{100}\right)^2 - 27500 \\ &= 27500 \left(\frac{29}{25}\right)^2 - 27500 \end{aligned}$$

$$= 37004 - 27500 = 9504$$

Total interest = 13200 + 5250 + 7280 + 6750 + 9504 = Rs 41984

Hence, option E is correct.

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