SI & CI FIND NET RATE / FRACTION:-

Type-1

4% @ CI for 2 years.
(a) 8%
(b) 8.08%
8.16%

(d) 8.64%

7% @ CI for 2 years.

(a) 14.49%

(b) 14.14%

(c) 14.07%

(d) 14%

13% @ CI for 2 years.

(a) 27.69%

(b) 27.96%

27.69 (c) 26.69%

(d) 26.96%

 $14\frac{2}{7}\%$ @ CI for 2 years. (b) 15/49

$$11\frac{1}{9}\%$$
 @ CI for 2 years.

10% @ CI for
$$2\frac{1}{3}$$
 years.

(a) 25.03%

(b) 27.05%

(c) 28.25%

(d) 29.15%

10% @ CI for 2.5 years.
(a) 20%
(b) 27.05%

(c) 21%

(d) 20.40%

B



10% @ CI for
$$2\frac{2}{5}$$
 years.

(a) 25%

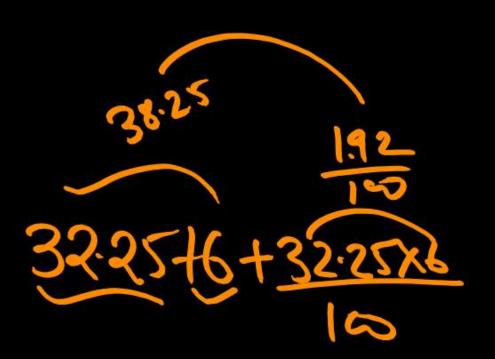
(b) 24%

214443184

(c) 24.84%

(d) 25.84%

15% @ Cl for $2\frac{2}{5}$ years.



- (a) 38.75%
- (b) 42.25%
- (c) 40.18%
 - (d) 41.28%



8% @ CI for
$$2\frac{5}{8}$$
 years.

- (a) 21.76%
- (b) 18.72%
- (c) 21%

19.1016

3a. 3a2a3

6% @ CI for 3 years.

(a) 18%

(b) 19.3%

(c) 20%

(d) 19.1%



5% @ SI for 3.5 years.

(a) 16.5%

(b) 17.5%

(c) 18%

(d) 18.5%

6.5% @ SI for 4 years.

(a) 24%

(b) 25%

(c) 26%

(d) 27%

8.75% @ SI for 4 years.

9.8% @ SI for 6 years.

(c) 58.8%

(b) 54.72%

(c) 54.48%

(d) 56.4%

9.7% @ SI for 6 years.

(a) 56%

(b) 58.2%

(c) 56.4%

(d) 59.4%

4% @ SI for 8.5 years.

(a) 35%

(b) 32%

(e) 34%

(d) 36%

Type-2

Find difference between SI and CI

(% or fraction):-

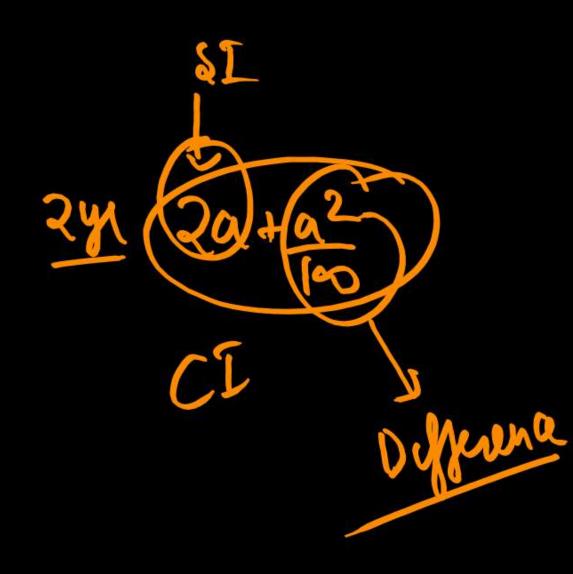
4% for 2 years.

(a) 0.4%

(b) 0.08%

(c) 0.16%

(d) 0.8%



SI3a CI3a3a2a3

-48 64

4% for 3 years.

(a) 0.6464%

(b) 0.6484%

(c) 0.4648%

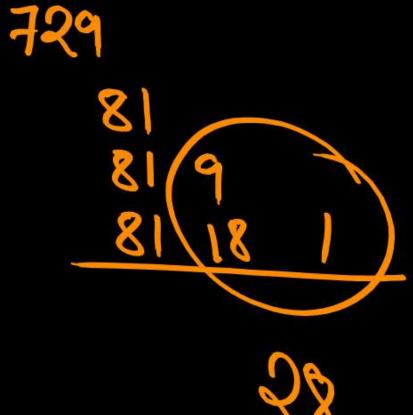
(d) 0.4864%

10% for 3 years.

(a)
$$1/18$$
 9
(b) $1/27$
(c) $1/81$
(c) $1/81$
(d) $2/81$

$$\frac{2}{3}\% \text{ for 2 years.}$$

$$8\frac{1}{3}\% \text{ for 2 years.}$$



12
$$\frac{1}{2}$$
% for 3 years.

20% for 3 years.

$$\left(\frac{12}{10}\right)^{3} = \frac{17285}{100}$$

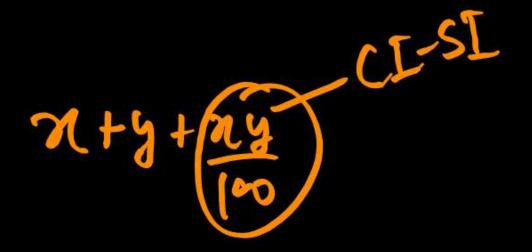
5% for 1st year and 10% for 2nd year.

(a) 0.25%

(b) 0.75%

(c) 0.5%

(d) 1.5%



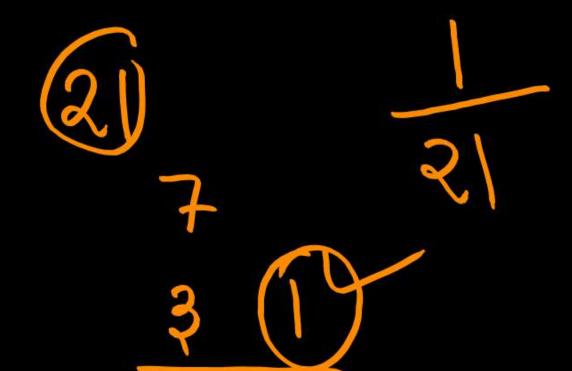
 $33\frac{1}{3}\%$ for 1st year and $14\frac{2}{7}\%$ for 2nd year.

(a) 1/14³

(b) 1/42

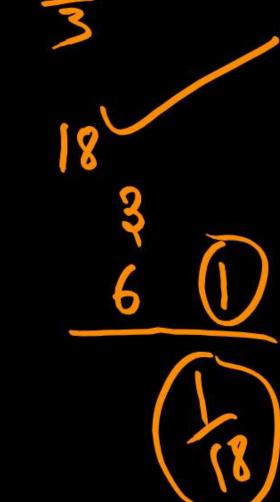
(0) 1/21

(d) 1/35



$$16\frac{2}{3}\%$$
 for 1st year and 33 $\frac{1}{3}\%$ for 2nd year.

(d)
$$1/24$$



 $12\frac{1}{2}\% \text{ for 1st year and 9} \frac{1}{11}\% \text{ for 2nd year.}$

- (b) 1/88
- (c) 1/84
- (d) 1/108

Type-3

FIND THE COMPOUND INTEREST (in %) IN EACH CASE:-

10% २बार 20% p.a. @ CI half yearly in 1 year? (a) 22%

(3)

ntytry

(b) 21%

(c) 22.5%

(d) 21.50%

14% p.a. @ CI half yearly in 1 year?

(2) 14.49%

(b) 15.28%

(c) 14.28%

(d) 14.14%

10-1. 20% p.a. @ CI half yearly in 1 year? 3912

(a) 33.01%

(b) 33.5%

(c) 33.3%

(d) 33.1%

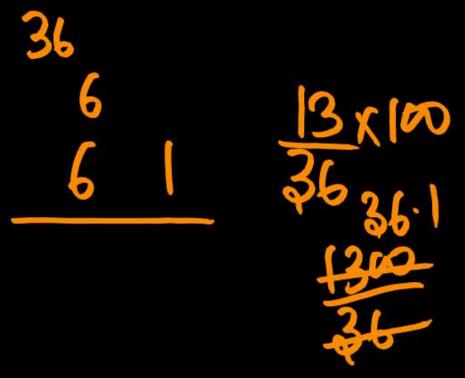


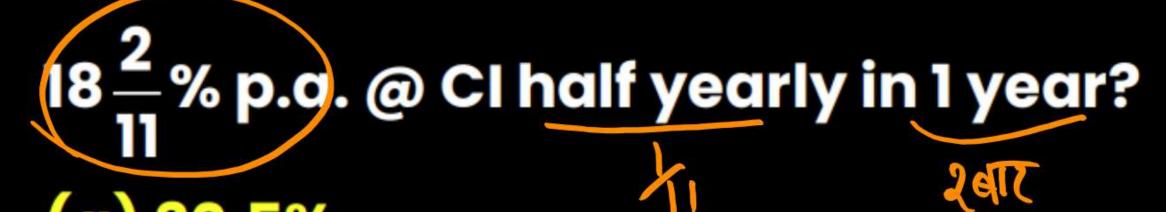
(a) 35.21%

(b) 36.11%

(c) 36.36%

(d) 36.89%





- (a) 20.5%
- (b) 21%
- (c) 20%
- (d) 19%

$14\frac{2}{7}\%$ p.g. @ CI half yearly in 1 year?

(c) 14.8%

(b) 15%

(c) 15.8%

(d) 14.6%

9 1 % p.a. @ CI half yearly in 1 year?

(a) 9.29%

(b) 11.11%

(c) 10.09%

(d) 9.90%

87.

12% p.g. @ CI compounded 8 monthly in 2 year?

(a) 24.96%

(b) 25.97%

(c) 28.84%

(d) 26.96%





30.34203



२क्ट

12% p.a. @ CI compounded 5 monthly in 10 months?

- (a) 11%
- (b) 11.25%
- (c) 12.25%
- (d) 10.25%

12% p.a. @ CI compounded 8 monthly in $1\frac{1}{3}$ years?

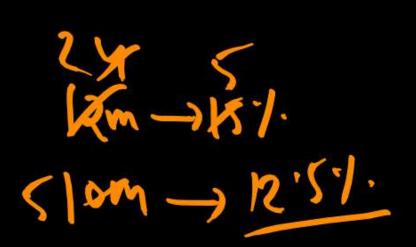
- (a) 24.46%
- (b) 12.45%
- (c) 18.64%
- (d) 16.64%

2912

16.64

15% p.a. @ CI compounded 10 monthly in $2\frac{1}{2}$ years?

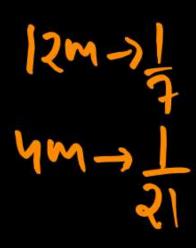
- (a) 37.50%
- (b) 45.30%
- (c) 42.38%
 - (d) 40.50%

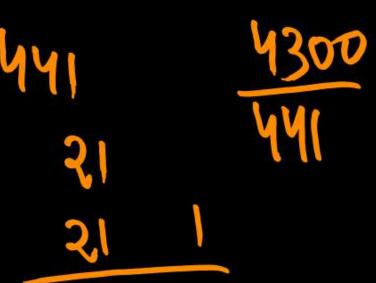




 $14\frac{2}{7}\%$ p.a. @ CI compounded 4 monthly in $(\frac{2}{3})$ year?

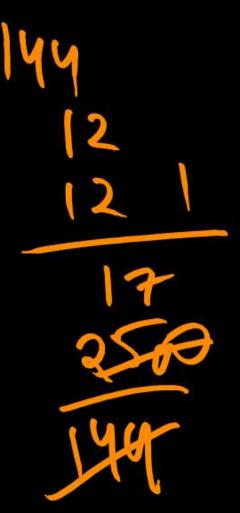
- (a) 10.25%
- (b) 9.75%
 - (c) 15.25%
 - (d) 11.75%





16 2 % p.a. @ CI compounded 6 monthly for 1 year?

- (a) 17.36%
- (b) 18.66%
- (c) 32.45%
- (d) 20.26%



p.a. @ CI compounded quarterly for 9 month?

- (a) 36.1%
- (b) 35.1%
- (c) 33.1%
- (d) 37.1%

20% p.a. @ CI for 3rd year?

(a) 25.6%

(b) 30.8%

(c) 29.6%

(d) 28.8%





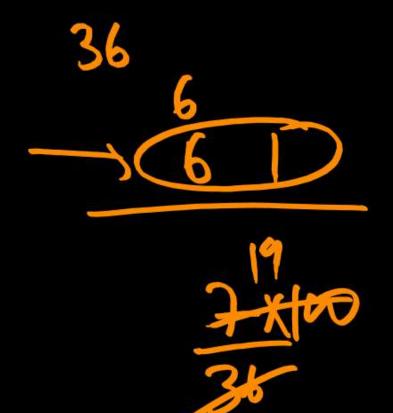
16 ²/₃ % p.a. @ CI for 2nd year?

(a) 18.24%

(b) 20.64%

(c) 19.44%

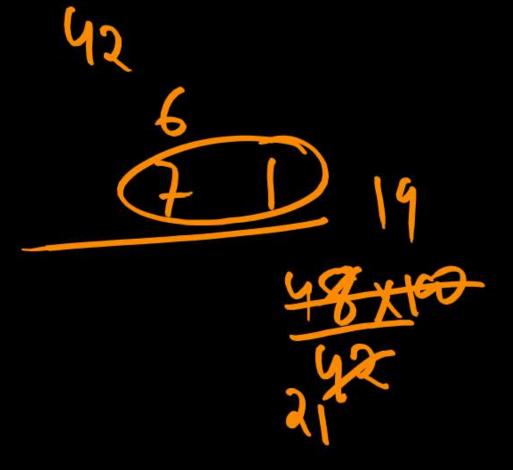
(d) 18.33%



 $6\frac{1}{4}\%$ p.a. @ CI for 2nd year? (a) 7.24% (b) 6.64% 526 (c) 6.28% (d) 8.32%

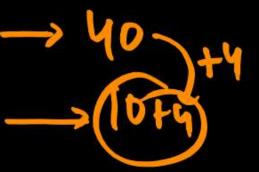
 $14\frac{2}{7}\%$ p.a. @ CI for 1st year and $16\frac{2}{3}\%$ for 2nd year then compound interest for 2nd year?

- (c) 19.04%
- (b) 18.64%
- (c) 20.24%
- (d) 16.08%



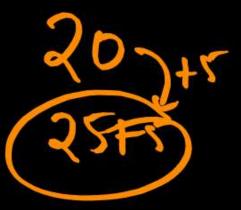
40% p.a. @ CI for 1st year and 10% for 2nd year then compound interest for 2nd year?

- (a) 12%
- (b) 13%
- (c) 16%
- (d) 14%

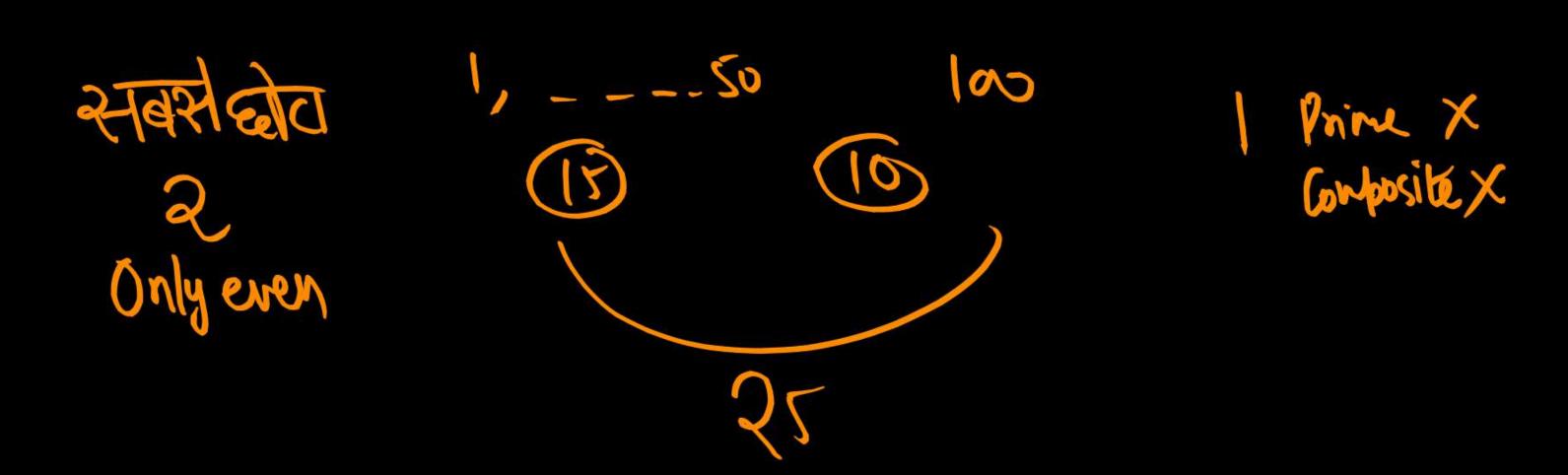


20% p.a. @ CI for 1st year and 25% for 2nd year then compound interest for 2nd year?

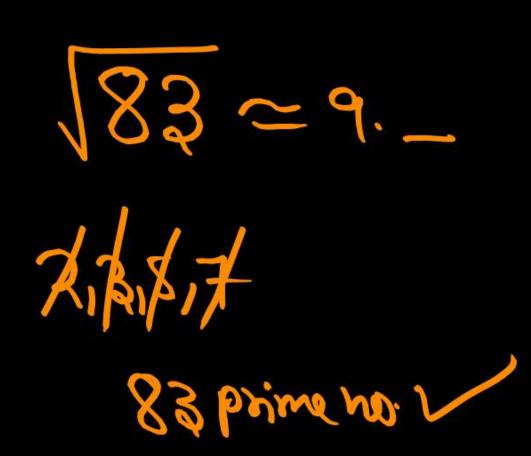
- (a) 28%
- (b) 32%
- (c) 30%
- (d) 29%



Prime Number (अभाज्य संख्या)



Is 83 prime or not?

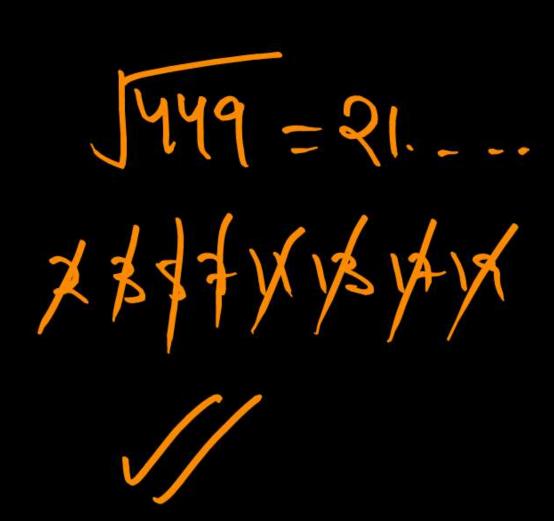


Is 76 prime or not?



Is 281 prime or not?

Is 449 prime or not?



Special Properties of Prime Number

- 1. Prime Numbers (अभाज्य संख्याए) between (1 50) ⇒ 15
- 2. Prime Numbers (अभाज्य संख्याए) between (1 100) ⇒ 25 🗸
- 3. Prime Numbers (अभाज्य संख्याए) between (1 200) ⇒ 46 🗸
- 4. Prime Numbers (अभाज्य संख्याए) between (1 500) ⇒ 95 🗸
- 5. Prime Numbers (अभाज्य संख्याए) between (1 1000) ⇒ 168
- जुड़वां अभाज्य संख्याएं (Twin Prime Numbers)
 वह दो Prime Numbers जिनका अंतर (Difference) 2 हो
 Eg. (3, 5) (11, 13), (17, 19) etc.
- 7. सबसे छोटी 2 अकीय अभाज्य संख्या → 11
- सबसे बड़ी 2 अंकीय अभाज्य संख्या → 97
- 9. सबसे छोटी 3 अंकीय अभाज्य संख्या → 101
- 10. सबसे बड़ी 3 अंकीय अभाज्य संख्या → 997

Romenoided

Last dight 1,3,7,9 × Reverse not true

Last dight 2,4,6,8,0 ×

$$3N \rightarrow R=12\pi 5$$