Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

1)A sum of 3000 is invested at 20% p.a compound interest(compounded annually). What is the compound interest for two years?

a)1360

b)1200

c)1320

d)1440

Ans: c)1320

Ratio Method

P=3000

R%=20%

T=2

CI=?

 $CI = P*(1+rt)/100)^n$

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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

2) If the compound interest on a certain sum of money for 2 years at 5% p.a is Rs.328, then the sum is_____

a)3600

b)3500

c)3000

d)3,200

Ans: d)3,200

Ratio Method

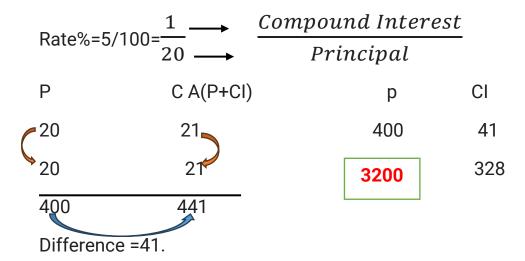
P=?

R%=5%

T=2

CI=328

CI= P*(1+r)/100)ⁿ



Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

3) A certain sum invested on compound interest (compounded annually) grows to 5040 in three years. If the rate of interest is 20% for the first year,40% for the second year and 50% for the third year, then what is the sum?

a)1210

b)2566

c)1800

d)2000

Ans: d) 2000

Ratio Method

P=?

$$R\%=40\%$$
 For 2^{nd} year

T=3 Yrs

C.A=5040

CI= P*(1+r)/100)ⁿ

Rate%=20/100=
$$\frac{1}{5}$$
 \longrightarrow $\frac{Compound\ Interest}{Principal}$

Rate%=40/100= $\frac{2}{5}$ \longrightarrow $\frac{Compound\ Interest}{Principal}$

Rate%=50/100= $\frac{1}{2}$ \longrightarrow $\frac{Compound\ Interest}{Principal}$





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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

	Р	C A(P+CI)
	5	6
	5	7
	2	3
•	50	126

2000 5040

4) What will be the compound interest for 3 years on Rs.5120 at the rate of 12.5% (Compounded annually)?

- a)2280
- b)1960
- c)2120
- d)2170

Ans: d) 2170

Ratio Method

P=5120 R%=12.5%

T=3

CI=?

CI= P*(1+r)/100) n

Step 1: Write R% into fraction.

Rate%=125/1000=
$$\frac{1}{8}$$
 \longrightarrow $\frac{Compound\ Interest}{Principal}$

P C A(P+CI) p CI

8 9 512 217

8 9 5120 2170

512 729

Difference = 217.

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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

5) The compound interest on a sum of RS.20,000 at 15% p.a for 2 2/3 year, interest compounded annually.

a)9098

b)9095

c)8896

d)9000

Ans: b)9095

Solution:

P=20,000

R%=15% p.a

For 1styear

T=2 2/3Yrs

CI= P*(1+r)/100) ⁿ

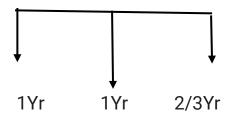
Step 1: Write R% into fraction.

Rate%=15/100=
$$\frac{3}{20} \longrightarrow \frac{Compound\ Interest}{Principal}$$

Rate%=15/100=
$$\frac{3}{20} \longrightarrow \frac{Compound\ Interest}{Principal}$$

Rate%=10/100=
$$\frac{1}{20} \longrightarrow \frac{Compound\ Interest}{Principal}$$

T=2 2/3Yrs



Rate calculation for 2/3 years.

Yr R%
1 15

2/3

10%

R=15% R=15% R=10%

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Name of the Bundle	PROFICIENT BUNDLE V2	Subject		APTITUDE
Topic	COMPOUND INTEREST	Last updated	on	19January 2024
Р	C A(P+CI)	p	CI	
20	23	4000	18	19
20	23	20000	909	95
10	11			
4000	5819			
Difference =181	9. (C.I=C.A-P)			

6)A sum of Rs.1200 is invested at compound interest(Compounded half yearly). If the rate of interest is 10% p.a, then what will be the amount after 18 months.

a)1389.15

b)1563.25

c)1185.45

d)1295.35

Ans: a)1389.15

Solution:

P=1200 R=10%

T=18 months

R=10% T=18 months

R% Months Compounded Half Yearly

10 So, 18/6 =3

R=5% 6 Now **T=3**

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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

Ratio Method

Rate%=5/100=
$$\frac{1}{20}$$
 \longrightarrow $\frac{Compound\ Interest}{Principal}$

P CA(P+CI) p CA

20³ 21³ 8000 9261

8000 9261 1200 1389.15

- 7) The compound interest on a sum of Rs.5500 at 15%p.a for 2 years, When the interest compounded 8 monthly is____.
- a)1880
- b)1820.50
- c)1773.75
- d)1850

Ans: b)1820.50

Solution:

P=5500

R=15%

T=2 Yrs = 24 months

CI=? Compounded 8 monthly

R=10% T=24 months

R% Months Compounded 8 monthly

15 So, 24/8 = 3

R=10% 8 Now T=3

Rate%=10/100= $\frac{1}{10}$ \longrightarrow $\frac{Compound\ Interest}{Principal}$

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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024
Р	C A(P+CI)	p	CI
10 ³	11 ³	1000	331
1000	1331	5500	1820.50

8) What is the compound interest on a sum of Rs.4096 at Rs.15% p.a for 21/2 years. If the interest is compounded 10 monthly.

- a)1726
- b)1736
- c)1636
- d)1763

Ans: b)1736

Solution:

P=4096 R=15%

 $T=2 \frac{1}{2} Yrs = 30 months$

CI=? Compounded 10 monthly

R=10% T=30 months

R% Months Compounded 10 monthly

15 So, 30/**10** =3

R=12.5% 10 Now **T=3**

Rate%=12.5/100=
$$\frac{125}{1000}$$
 = $\frac{1}{8}$ \longrightarrow $\frac{Compound\ Interest}{Principal}$

P C A(P+CI) p CI

8³ 9³ 512 217

 $\overline{512}$ 729 4096 1736

Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

SUCCESSIVE PERCENTAGE INCREASE METHOD

Example:

P=1000 R=3% T=2 CI=?

For 2 Years

Let the successive increase in % be a% and b%.In that case,the total increase will be (a+b+(ab)/100)%

For 2 years, The rate of interest increases successively by 3%.

$$(3+3+(3*3)/100)=6.09\%$$

For T=2 years	1 ST Yr	2 nd Yr	(%increase) R%
R=2%	2%	2%	4.04
R=3%	3%	3%	6.09
R=4%	4%	4%	16.16
R=7%	7%	7%	14.49
R=9%	9%	9%	18.81
R=11%	11%	11%	23.21
R=13%	13%	13%	27.69

Hint: If R=8% T=2 Yrs, Then % increase in R

8x2=16; 8x8=64 R=16.64%

R=14% T=2 Yrs, Then % increase in R 14x2=28; 14²=196

Adding 28+1.96=29.96%

Name of the Bundle PF	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic Co	COMPOUND INTEREST	Last updated on	19January 2024

9) The compound interest for two years at 12% p.a is Rs.477. What is the principal amount?

a)1875

b)2000

c)1500

d)1650

Ans: a)1875

Solution:

P=?

R=12%

T=2Yrs

CI = 477

Let the successive increase in % be a% and b%.In that case,the total increase will be (a + b + (ab)/100)%

For 2 years, The rate of interest increases successively by 3%.

$$(12 + 12 + (12 * 12)/100)$$
 = 25.44%

Rate%=25.44/100=
$$\frac{2544}{10000} = \frac{Compound\ Interest}{Principal}$$

Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

10) The compound interest on a certain sum of money at 11% for 2 years is 6963.It's simple interest (in Rs) at the same rate and for the same period is

b)6600 c)6750 a)6500 d)6000

Ans: b)6600

Solution:

P=? SI=?

R=11%

T=2Yrs

CI = 6963

Hint: If R=11% T=2 Yrs ,Then % increase in R 11x2=22; 11x11=121 R=23.21%

Rate%=23.21/100=
$$\frac{2321}{10000} \Longrightarrow \frac{Compound\ Interest}{Principal}$$

$$p \qquad CI$$

$$10000 \qquad 2321$$

$$30000 \qquad 6963$$

SI=PRT/100;(30000*11*2)/100=6600 P=30000 R=11% T=2Yrs. SI=?

Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

11)Ram deposited an amount of 1000 in a bank's savings account with interest 6% compounded monthly. What amount of interest will he get at the end of 24 months?

a)123.6

b)788.98

c)246.12

d)807.56

Ans: a)123.6

Solution:

P=1000

SI=?

R=6%

T=2Yrs

CA=?

Hint: If R=6% T=2 Yrs ,Then % increase in R 6x2=12; 6x6=36 R=12.36%

Rate%=2.36/100=
$$\frac{12.36}{100}$$
 = $\xrightarrow{}$ $\frac{Compound\ Interest}{Principal}$

p Cl

100 12.36

1000 123.6

Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

12) The compound interest on a certain sum of money at 21% for 2 years is Rs.11602.5.It's simple interest in Rs at the same rate and for the same period is

a)10500

b)10750

c)16000

d)12500

Ans: a)10500

Solution:

P=? SI=?

R=21%

T=2Yrs

CI=11602.5

Hint: If R=21% T=2 Yrs, Then % increase in R 21x2=42; 21x21=441 R=46.41%

Rate%=46.41/100=
$$\frac{4641}{10000} \xrightarrow{=} \frac{Compound\ Interest}{Principal}$$

4641 10000

11602.5 25000

P=25000 R=21% T=2Yrs. **SI=PRT/100**;(25000*21*2)/100=**10500**

Name of the Bundle PF	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic Co	COMPOUND INTEREST	Last updated on	19January 2024

13)A woman invests Rs.2000 at the start of each year at 5% compound interest per annum. How much will her investment be at the end of the 2nd year?

a)4305

b)4355

c)430

d)4305

Ans: a) 4305

Solution:

For the first Year Woman invests

P=2000

R=5%

T=1Yrs

CA=?

Rate%=5/100= $\frac{1}{20} \stackrel{\blacktriangledown}{=}$

Compound Interest

Principal

р

CA

20

21

2000

2100

CA for 1st year

For the second year Woman invests 2100+2000, Now Principal =4100

P=4100 R=5% T=1Yrs

Rate%=5/100=
$$\frac{1}{20}$$
 = $\xrightarrow{Compound\ Interest}$ $\xrightarrow{Principal}$

p

CA

20

21

4100

4305

CA for 2nd year

Name of the Bundle PF	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic Co	COMPOUND INTEREST	Last updated on	19January 2024

14) A woman invests Rs.100 at the start of each year at 5% compound interest per annum. How much will her investment be at the end of the 2nd year?

a)215.25

b)215.5

c)215

d)215.75

Ans: a)215.25

Solution:

For the first Year Woman invests

P=100 R=5% T=1Yrs CA=?

Rate%=5/100=
$$\frac{1}{20}$$
 = $\xrightarrow{}$ $\frac{Compound\ Interest}{Principal}$

p CA

20 21

100 105 CA for 1st year

For the second year Woman invests 105+100, Now Principal =205

P=205

R=5%

T=1Yrs

Rate%=5/100=
$$\frac{1}{20}$$
 = $\frac{Compound\ Interest}{Principal}$

p

CA

20

21

205

CA for 2nd year

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Name of the Bundle PF	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic Co	COMPOUND INTEREST	Last updated on	19January 2024

15) Mr. Ram borrowed Rs.8500 at 4% p.a compound interest. The compound interest compounded annually for 2 years is

a)693.6

b)639.6

c)9139.6

d)9193.6

Ans: a)693.6

Solution:

P=8500

R=4%

T=2Yrs

CI=?

Step 1: Write R% into fraction.

Rate%=4/100= $\frac{1}{25}$ \longrightarrow $\frac{Compound\ Interest}{Principal}$ P C A(P+CI) p CI

25 625 51

25 26 8500 693.6

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Name of the Bundle PROFICE	CIENT BUNDLE V2	Subject	APTITUDE
Topic COMPO	OUND INTEREST	Last updated on	19January 2024

16) There is a 40% increase in an amount in 4 years at simple interest. What will be the compound interest on Rs.6000 after 3 years at the same rate?

a)1260

b)1986

c)19860

d)7986

Ans: b)1986

Solution:

P=6000

R=?

Yr

R

In S.I T=4Yrs

A= 40% increase

4

40

SI=(PRT)/100; R is directly proportional to SI.

1

10%

R=10% For 1 year,

CI=?

P=6000 R=10% T=3 Yrs

Step 1: Write R% into fraction.

Rate%=10/100=
$$\frac{1}{10}$$
 \longrightarrow

Compound Interest

Ρ

C A(P+CI)

11

p

CA

10

10

10

1331 1000

Difference =331. (C.I=C.A-P)

Principal

1000

331

6000

1986

Name of the Bundle PF	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic Co	COMPOUND INTEREST	Last updated on	19January 2024

17) A sum of Rs.2100 is to be paid back in 2 equal instalments. How much is each instalment if the interest is compounded annually at 10%p.a?

a)1210

b)1240

c)1230

d)1220

Ans: a)1210

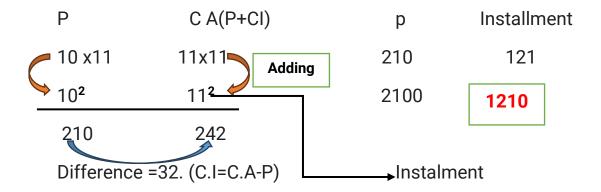
Solution:

P=6000

R=10%

No.of.installments=2

Rate%=10/100=
$$\frac{1}{10}$$
 \checkmark $\frac{Compound\ Interest}{Principal}$



Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

18)A loan of Rs.8925 is to be paid back in two equal half yearly instalments. How much is each if the interest is compounded half yearly at 8% per annum?

a) 4372

b) 4654

c)4654

d)4732

Ans: d)4732

Solution:

P=8925 R=8%

No.of.installments=2

CI=? Compounded half yearly

R=10%

R%

Months

8

12

R=4%

6

Rate%=4/100=
$$\frac{1}{25}$$

Compound Interest Principal

C A(P+CI) P Installment р 26 x25 1275 676 26x26 **Adding** 25^{2} 8925 4732 Difference = 77. (C.I=C.A-P) Instalment

Name of the Bundle PROFICE	CIENT BUNDLE V2	Subject	APTITUDE
Topic COMPO	OUND INTEREST	Last updated on	19January 2024

19)A sum of Rs.45500 is to be paid back in 3 equal annual instalments. How much is each instalment if the interest is compounded annually at 20% per annum.

a) 21600

b) 21700

c)21800

d)21900

Ans: a)21600

Solution:

P=45500

R=20%

No.of.installments=3

R=20% Rate%=20/100=
$$\frac{1}{5}$$
 \checkmark $\frac{Compound\ Interest}{Principal}$

P C A(P+CI) p Installment

 $5x 6^2$ $6x6^2$
 5^2x6 6^2x6 Adding 455 216
 5^3 6^3 45500 21600

Difference =193. (C.I=C.A-P) Installment

Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

20)A sum of Rs.25520 is to be paid back in 3 equal annual instalments. How much is each instalment if the interest is compounded annually at 5% per annum.

a) 9361

b) 9261

c)9621

d)9216

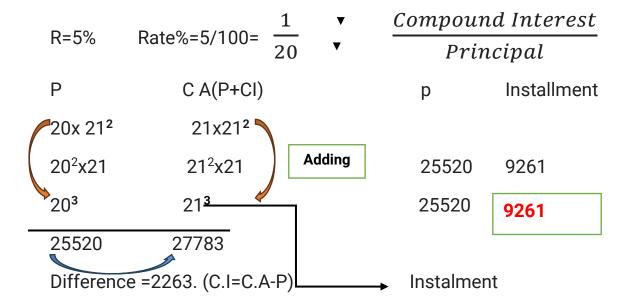
Ans: b) 9261

Solution:

P=25220

R=5%

No.of.installments=3



Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

21) A man borrowed Rs.9000 at the rate of interest 10%p.a compound interest. At the end of every year he returned Rs.3000.At the end of 3rd year how much money should he paid so that the whole sum be paid

a) 5049

b) 5050

c)5070

d)5060

Ans: a) 5049

Solution

P=9000

R=10%

T=1 Yr For 1st Yr

Р

C A(P+CI)

p

CI

11

10

Difference =1

10 9000

9900

9900-3000 Returned every year. So Now P=6900

T=1 Yr For 2nd Yr

Р

C A(P+CI)

10

0 11

Difference =1

10

6900

p

11

7590

CI

7590-**3000** Returned every year. So Now P=4590

T=1 Yr For 3rd Yr

Р

C A(P+CI)

р

CI

10

10

11

Difference =1

4590

5049

Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

22) The difference between the compound interest and simple interest on Rs. x at 8% per annum for 2 years is Rs 19.20. What is the value of x?

- a) 2500
- b) 3200
- c)2800
- d)3000

Ans: d)3000

Formulae

For 2 years ===== \Rightarrow Diff = P (R/100)²

For 3 years ===== \Rightarrow Diff = P (R/100)² (300+R/100)

For 2 years=== \rightarrow Diff = P (R/100)²

 $19.20 = x (8/100)^2$

x = 3000

23) The difference between the compound interest and simple interest on a sum at 10% per annum for 3 years is Rs 155. The sum is _____.

- a) 5500
- b) 6000
- c)6600
- d)5000

Ans: d)5000

Solution

For 3 years ===== \Rightarrow Diff = P (R/100)² (300+R/100)

 $155 = P(10/100)^{2}(300+10/100)$

= P (10x10/100x100) (310/100)

1550000= **P**310

P = 5000

Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

24) The difference between the compound interest and simple interest on Rs. x at 6.5% per annum for 2 years is Rs 33.80. What is the value of x?

- a) 7800
- b) 7500
- c)8000
- d)8500

Ans: C)8000

For 2 years=== \rightarrow Diff = P (R/100)²

 $33.80 = X (6.5/100)^2$

 $3380 = X (65/10)^2$

338000= X(65x65)

X=8000

25)A sum invested at compound interest (Compounded annually) amounts to Rs,750 at the end of the first year and Rs,900 at the end of second year. What is the sum?

- a) 700
- b) 625
- c)600
- d)650

Ans: b)625



p A

6

Taking ratio **5**

625

750

Diff = 900-750 = 150

R= (150/750) x100=20%

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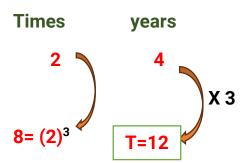
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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

26)A sum doubles in 4 years at a certain rate of Compound interest. In how many years does it amount to 8 times itself at the same rate?

- a) 9 years
- b) 12 years
- c)15 years
- d)6years

Ans: b)12



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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

Basic Explanation

Logic

Example 1: The ratio of P: A T=2Yrs R=?

100:144

R=?

Taking square root $\sqrt{100}$: $\sqrt{144}$

10 : 12

CI P

2 10

R=20% 100

Example 2: The ratio of P: A T=2Yrs R=?

100:169

R=?

Taking square root $\sqrt{100}$: $\sqrt{144}$

10 : 12

CI P

3 10

R=30% 100

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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	COMPOUND INTEREST	Last updated on	19January 2024

Example 3: The ratio of P: A T=3Yrs R=?

1000:1331

R=?

Taking cube root $\sqrt{1000}$: $\sqrt{1331}$

10:11

CI P

1 10

R=10% 100

27) At what rate of interest per annum, a sum of Rs,6000 will become Rs,7986 in 3 years, if the interest is compounded annually?

a) 10%

b) 8%

c)12.5%

d)11%

Ans: a)10%

P=6000

C.A=7986

T=3Yrs

r=?

Р

Α

6000

7986

1000

1331

Taking cube root $\sqrt{1000}$: $\sqrt{1331}$

CI P

1

10

R=10%

100

 $C.A = P(1+R/100)^n$

c.a ∝r

C.A=P+C.I

C.A∝C.I

r∝P