## Compound Interest

Tuesday, May 18, 2021 10:11 AM

$$C.I = P\left(\left(1 + \frac{8}{100}\right)^{N} - 1\right)^{N} C.I = Contours Interest.$$

A & Amount

P > Principal

2 = Acte of int west

Extind C. I on RS 46000 cut sette Ub 5.1. P.C.P.a. tog 2 Jews. Hinj C.I. ?

$$C. E = P \left( \left( 1 + \frac{2}{1\omega} \right)^{\gamma} - 1 \right)$$

$$= 16000 \left( \left( 1 + \frac{2}{1\omega} \right)^{2} - 1 \right)$$

$$= 16000 \left( \frac{21 \times 21}{20 \times 20} \right) \cdot 1$$

57. Find C. I on R1. 10, 000 wh the sate ob intant & 1. tox 1 1/2 years, find C. I.

$$C.T = P\left(\left(1 + \frac{2}{100}\right)^{3} - \frac{1}{1}\right)$$

$$= 10000 \left(1 + \frac{2}{100}\right)^{3/2} - 1^{3/2}$$

$$= |v| \cos \left( \left( 1 + \frac{c}{|v|} \right)^{\frac{1}{2}} \left( 1 + \frac{6}{|v|} \times \frac{1}{2} \right) - 1 \right)$$

## 10000 - 118 125/

to to hind out.

Principal = P

Rote of interest = R

Time = N

(1) When time is 2 years  $c. \pm -3 \Gamma = P \left( \frac{R}{100} \right)^{2}$ 

Circhentime is 3 Jaus  $C.T - SE = P\left(\frac{R}{100}\right)^2 \times \left(\frac{300 + R}{100}\right)$ 

SZIF the dibtolence 1200 (IGST UM) RS. 1960 is NS. 15.60 DUX 2 years at lestain Rate of intelest find R?

Sim of noney top & Jews at 10-1.

11 RJ.31. timl. Sum of money

$$C. T - St = \left(\frac{8}{100}\right)^{2} \cdot \left(\frac{300 + 8}{100}\right)$$

$$31 = b \left(\frac{10}{10}\right) \left(\frac{100}{300 + 10}\right)$$

$$31 = b \left(\frac{100}{100}\right) \left(\frac{100}{310}\right)$$

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Gr A sum of money doubles itsuf at compound intends in 15 years.

In how many years will it become eight trong.

$$A = P \left( 1 + \frac{2}{100} \right)$$

$$2P = P \left(1 + \frac{2}{100}\right)^{15}$$

$$2 = \left(1 + \frac{2}{100}\right)^{15}$$

$$3 = \frac{2}{100}$$

$$(1+\frac{3}{100})^{7} = 2 = (2)^{3} = (1+\frac{3}{100})^{15}$$

$$= (1+\frac{3}{100})^{45}$$

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02

$$M_{5} = (M_{1})^{\frac{3}{3}}$$

8 = (2) tr/15

$$2^{3} = (2)$$
 =)

ninz + no. of Homes

ti, ti to of Jews.

Ex A costain amount easons simple intous to Ps. 1756+ 06 7 years. Had the interest Lean 21. mart

the interest been 21. more, how much more interest would it have eury es?

CNP/