

Name: Veronica Picillo

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Daily Check In

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

$$A = P + I$$

$$\frac{4.5}{5}$$



Anne has \$12 500 saved for a trip to Europe. She invested this at an annual rate of 4.65%, compounded semi-monthly, for a year and a half. How much interest did Anne make on her Europe fund at the end of the term?

A	
P	12 500 ✓
I	
r	0.0465 ✓
t	1.5 ✓
n	24 ✓

$$A = 12500 \left(1 + \frac{0.0465}{24}\right)^{24 \times 1.5}$$

$$A = 12500 (1 + 0.0019375)^{36}$$

$$A = 12500 (1.0019375)^{36}$$

$$A = 12500 (1.072167732)$$

$$A = \$13402.10$$

$$13402.10 - 12500$$

$$= \$902.10$$

2 decimal places for money!

How did you do? (Circle one)	Emerging	Developing	Proficient	Extending
				(circled)

Name: Connor Phan

Date: \_\_\_\_\_

Daily Check In

$\frac{5}{5}$



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

$$A = P + I$$

Anne has \$13 750 saved for a trip to Europe. She invested this at an annual rate of 5.05%, compounded bi-weekly, for a year and a half. How much interest did Anne make on her Europe fund at the end of the term?

A	14830.75
P	13750 ✓
I	1080.75
r	5.05% ✓
t	1.5 ✓
n	26 ✓

$$A = 13750 \left( 1 + \frac{0.0505}{26} \right)^{26 \times 1.5}$$

$$A = 13750 \left( 1 + \frac{0.0505}{26} \right)^{39}$$

$$A = 13750 (1 + 0.001942)^{39}$$

$$A = 13750 (1.001942)^{39}$$

$$A = 13750 (1.0786)$$

$$A = \$14830.75 \checkmark$$

$$I = 14830.75 - 13750$$

$$I = 1080.75 \checkmark$$

Fantastic!

How did you do? (Circle one)	Emerging	Developing	Proficient	Extending



b) What was Hayley's annual interest rate?

$$1.25\% \times 365 = 455\% \text{ annually.}$$

1. Anne borrowed \$250.00 from a payday loan store. She paid back the loan and interest 9 days later. Her annual rate of interest was 425%. How much interest did Anne pay?

$$\begin{aligned} I &= Prt \\ &= (250)(4.25)\left(\frac{9}{365}\right) \\ &= \$26.20 \end{aligned}$$

*because this is annual*  
*this has to be in years.*

2. Mike borrowed \$725.00 from a payday loan store and agreed to repay it in 15 days at a daily interest rate of 1.67%. How much in total did Mike repay the store? **A**

$$\begin{aligned} I &= Prt \\ A &= P + I \end{aligned}$$

$$\begin{aligned} I &= Prt \\ &= (725)(0.0167)(15) \\ &= 181.61 \end{aligned}$$

$$\begin{aligned} A &= P + I \\ &= 725 + 181.61 = \$906.61 \end{aligned}$$

3. Luke agreed to pay \$527.50 to a payday company that gave him a loan of \$485.00 at 1.10% per day. How many days did he have the money?

$$I = 527.50 - 485$$