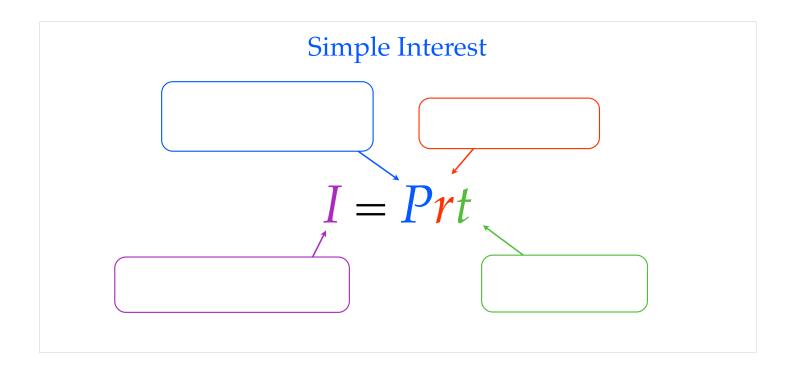
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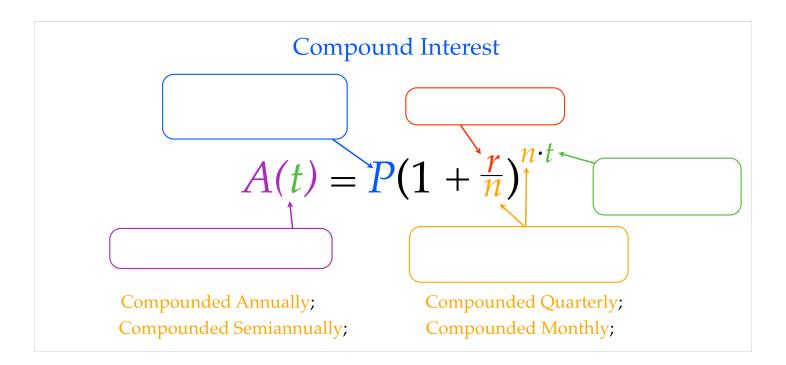


Simple Interest I = Prt

What is the simple interest due if \$1,500 is borrowed for 2 years at a simple interest rate of 8% per year.

Simple Interest I = Prt

A bank account pays 6% interest that compounds quarterly. If you invest \$2,000 and the interest if left to accumulate, how much will be in your account after 1 year?





You deposit \$500 in a bank account that pays you 8% interest. How much money will you have in 10 years if your interest is compounded annually? quarterly? monthly?

Compound Interest
$$A(t) = P(1 + \frac{r}{n})^{n \cdot t}$$

You deposit \$500 in a bank account that pays you 8% interest. How much money will you have in 10 years if your interest is compounded annually? quarterly? monthly?

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Annually Quarterly Monthly

 $A(10) \approx 1080 $A(10) \approx 1105 $A(10) \approx 1109.82

Compound Interest
$$A(t) = P(1 + \frac{r}{n})^{n \cdot t}$$

A bank account pays 6% interest that compounds quarterly. If you invest \$2,000 and the interest if left to accumulate, how much will be in your account after 1 year?

First Quarter Second Quarter Third Quarter Fourth Quarter P = \$2,000 r = .06 $t = \frac{1}{4}$ $t = 2,000 \cdot .06 \cdot \frac{1}{4}$ $I = 2,030 \cdot .06 \cdot \frac{1}{4}$ $I = 2,030 \cdot .06 \cdot \frac{1}{4}$ I = 30.45 I = 30.45 I = 30.45 I = 30.45 I = 30.45

End of Year Total = \$2,091.36 + \$31.37 = \$2,122.73

Compound Interest $A(t) = P(1 + \frac{r}{n})^{n \cdot t}$

A bank account pays 6% interest that compounds quarterly. If you invest \$2,000 and the interest if left to accumulate, how much will be in your account after 1 year?

Quarterly

$$A(1) = $2,122.73$$