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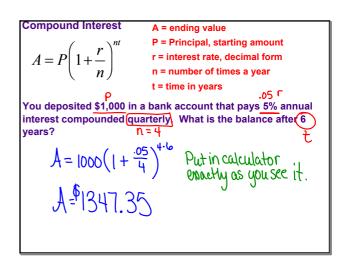
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An acidophilus culture containing 150 bacteria doubles (a) in population every hour. Predict the number of bacteria after 12 hours.

y = ab^x

Put in calculator

y = 6|4,400| bacteria
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$$A = P\left(1 + \frac{r}{n}\right)^{nl}$$
You deposited \$400 in a bank account that pays 10% interest compounded monthly. What is the balance after 7 years?
$$A = 400\left(1 + \frac{10}{12}\right)^{13.7}$$

$$A = $803.17$$

## Conclusion

- 1. What does the a-value and P-value stand for?

  Beginning
  Value

  Value
- 2. How do we need to put interest rates in formulas? As decimals
- 3. Question??????

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Word Problem for Exponential Formulas

Wkst