STUDENT NAME	CLASS PERIOD	DATE
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Unit 3-5: Compound Interest Formula Quiz

Answer the following questions on this paper. Show your work as the work will also be a part of the grade.

1. John opens a savings account with \$500 which he earned during the summer mowing lawn. The bank will pay him 2.5% interest for one year, compounded quarterly. Without John adding any more money to his savings account, how much money will he have at the end of one year?

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2. Joan makes a deposit in a savings account of \$1,235. The account earns interest at the rate of 2.25, compounded monthly. What is her ending balance after 3 years? Round to the nearest cent.

3. Richard has been given a \$1,000, 1-Year Certificate of Deposit at 3.25 interest compounded weekly. What is Richard's annual percentage yield (APY) to the nearest hundredth of a percent?

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Formulas:

Simple Interest Formula I = prt

Compound Interest Formula $B = P\left(1 + \frac{r}{n}\right)^{nt}$

APY Formula $APY = \left(1 + \frac{r}{n}\right)^n - 1$

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