

Do Now

1) Sue invested \$1,000 at 6% per year compounded monthly. Find the value of Sue's investment after 5 years. Round to the nearest cent.

Nearest hundredths

$$A = P(1+r)^n$$

$$A = 1000(1 + \frac{6\%}{12})^{60}$$

$$A = 1000(1 + \frac{.06}{12})^{60}$$

$$A = 1000(1 + .005)^{60}$$

$$A = 1000(1.005)^{60}$$

$$A = 1348.850153$$

$\frac{12}{12} \times 5$  ← # of months in 5 yrs  
To figure out % per month

A =

\$ 1,348.85

2) Mark opened a bank account. His starting balance was \$600. If he receives a 2% interest per year compounded monthly, how much money would Mark have in his account after 3 years. Round to the nearest cent.

Nearest hundredths

$$A = P(1+r)^n$$

$$A = 600(1 + \frac{2\%}{12})^{36}$$

$$A = 600(1 + \frac{.02}{12})^{36}$$

$$A = 600(1 + \frac{1}{600})^{36}$$

$$A = 600(1 \frac{1}{600})^{36}$$

$$A = 637.070109$$

$\frac{12}{12} \times 3$

\$ 637.07