A Simple Mortgage Calculator, v.4.0

Purpose. Learn to use a simple object, to collect all the data about a single item into one variable.

Requirements. Modify Exercise 10.5's MortgageCalculator3.java by replacing its separate variables with a single object with data fields that replace the variables. Name the new file **MortgageCalculator4.java**.

Create an object specification named class Mortgage, with the data fields for:

- 1. the amount borrowed
- 2. interest rate (r in previous versions)
- 3. number of monthly payments (n in previous versions)
- 4. the payment (p in previous versions)

Then in your program, declare an *object* of type Mortgage, and use its data fields instead of the four separate variables. Include any additional data fields that you may wish to include beyond these four.

Program I/O. Exactly the same as v.3.0.

Example. Console part of the I/O, with user input in blue:

```
What's the amount borrowed? 270000
What's the annual interest rate? 5.125
```

```
Amount borrowed (user input) = $270000
Annual interest rate (user input) = 5.125%
Payback period (programmer input) = 30 Years
Monthly payment (output) = $1470.11
```