```cpp
//
//  Catching Multiple Exceptions
//  main.cpp
//  AbsoluteCpp_ch18_4
//


#include <iostream>
#include <string>
using std::cin;
using std::cout;
using std::endl;
using std::string;

class NegativeNumber
{
    public:
        NegativeNumber( ){}
        NegativeNumber(string theMessage): message(theMessage) {}
        string getMessage( ) const { return message; }
    private:
        string message;
};

class DivideByZero
{};

int main() {

    int pencils, erasers;
    double ppe; //pencils per eraser

    try
    {
        cout << "How many pencils do you have?\n";
        cin >> pencils;
        if (pencils < 0)
            throw NegativeNumber("pencils");
        cout << "How many erasers do you have?\n";
        cin >> erasers;
        if (erasers < 0)
            throw NegativeNumber("erasers");
        if (erasers != 0)
            ppe = pencils / static_cast<double>(erasers);
        else
            throw DivideByZero( );
        cout << "Each eraser must last through " << ppe << " pencils.\n";

    }
    catch(NegativeNumber e)
    {
        cout << "Cannot have a negative number of " << e.getMessage( ) <<
         endl;
    }
    catch(DivideByZero)
```

```
    {
        cout << "Do not make any mistakes.\n"; }

    cout << "End of program.\n";
    return 0;
}
```