Clicker Questions on Subclasses

Here is where we are with the Gradebook program. Class Gradebook has:

```
def NewNumberGrade(self):
    for student in self.roster:
        g = NumberGrade(student.name)
        student.addGrade(g)
```

Class NumberGrade has

%name))

It seems like a bad design to have methods NewLetterGrade() and NewNumberGrade() in class Gradebook that are almost identical.

Can we make a constructor for class Grade that looks at the grade value and constructs the appropriate subclass?

```
Make the constructor for class Grade:
         def init (self, name):
                   value = input( "Grade for %s: "%name )
                   if value.isdigit():
                             NumberGrade. init (self, value)
                   else:
                             LetterGrade. init (self, value)
B) Make the constructor for class Grade:
         def _init__(self, name):
                   value = input( "Grade for %s: "%name )
                   if value.isdigit():
                             return NumberGrade(value)
                   else:
                             return LetterGrade(value)
```

C) Neither of these

Well if that doesn't do it, what will?