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# 12-01-08

## Note

This revision incorporates the bump "0.156 HW7 GRADE" added to your Exam 2 grade.

You can *project* your course grade by entering *hypothetical* final exam GRADE.

The numbering of these data entries differs from the sheet given you earlier so be careful entering it.

```
grades[x_] := {x[[2]], x[[3]], 4 x[[4]] / 20, 4 x[[5]] / 28, 4 x[[6]] / 15,  
  4 x[[7]] / 16, x[[8]], x[[9]], x[[10]], 0, Max[2.0 + 0.2 (x[[12]] + x[[11]] / 3 - 18), 0],  
  Max[2.0 + 0.2 (x[[13]] - 12) + .156 x[[8]], 0], Max[2.0 + (x[[14]] - 14) / 3, 0], x[[15]]}  
  
gradeA[x_] := grades[x] . {.25 / 9, .25 / 9, .25 / 9, .25 / 9,  
  .25 / 9, .25 / 9, .25 / 9, .25 / 9, .25 / 9, 0, 0.5 / 3, 0.5 / 3, 0.5 / 3, .25}  
  
gradeB[x_] := grades[x] . {.25 / 9, .25 / 9, .25 / 9, .25 / 9,  
  .25 / 9, .25 / 9, .25 / 9, .25 / 9, .25 / 9, 0, 0.25 / 2, 0.25 / 2, 0.2, .3}  
  
grade[x_] := Max[gradeA[x], gradeB[x]]  
  
legend = {"Student", "HW1", "HW2", "HW3", "HW4", "HW5", "HW6", "HW7", "HW8",  
  "HW9", "Quiz 2", "Exam 1", "Exam 2", "Exam 3", "Final Exam", "Grade12-01-08"};
```

Enter your raw scores x following the legend above. For your "Student" entry use any number you wish. It is not used in the calculation.

In some cases your raw scores are already in 4.0 scale, in others they are not. Exam 3 is in raw score.

Here are course grade calculations for a hypothetical student #46, for final exam grades of 0, 2, 3, 4.

```
grade[{46, 4, 3.8, 22, 0, 17, 18, 3.7, 2.8, 2.8, 9, 22, 21, 13, 0}]  
2.42213  
  
grade[{46, 4, 3.8, 22, 0, 17, 18, 3.7, 2.8, 2.8, 9, 22, 21, 13, 2}]  
2.92213
```

```
grade[{46, 4, 3.8, 22, 0, 17, 18, 3.7, 2.8, 2.8, 9, 22, 21, 13, 3}]
```

```
3.17213
```

```
grade[{46, 4, 3.8, 22, 0, 17, 18, 3.7, 2.8, 2.8, 9, 22, 21, 13, 4}]
```

```
3.42213
```

To see the grades earned for hw and exams use "grades." Notice it leaves off the student's reference #46.

```
grades[{46, 4, 3.8, 22, 0, 17, 18, 3.7, 2.8, 2.8, 9, 22, 21, 13, 0}]
```

```
{4, 3.8,  $\frac{22}{5}$ , 0,  $\frac{68}{15}$ ,  $\frac{9}{2}$ , 3.7, 2.8, 2.8, 0, 3.4, 4.3772, 1.66667, 0}
```