

Letter grades for Math 162 final exam of May 6, 2019

$$\begin{aligned}
 A+ &= 4.33 & A &= 4 & A- &= 3.67 \\
 B+ &= 3.33 & B &= 3 & B- &= 2.67 \\
 C+ &= 2.33 & C &= 2 & C- &= 1.67 \\
 D+ &= 1.33 & D &= 1 & D- &= 0.67
 \end{aligned}$$

**Part A**

If your score is  $x$ , then your letter grade is

$$f(x) = \frac{3x(31x + 2213)}{354200}$$

The median score for the exam is 77, which translates to a letter grade of 3.00 or B. The following table shows the letter grade for each possible score. *Any extra credit you have received since the second midterm will be added to this value.*

$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$
0	0.	15	0.34	30	0.8	45	1.38	60	2.07	75	2.88	90	3.81
1	0.02	16	0.37	31	0.83	46	1.42	61	2.12	76	2.94	91	3.88
2	0.04	17	0.39	32	0.87	47	1.46	62	2.17	77	3.	92	3.95
3	0.06	18	0.42	33	0.9	48	1.5	63	2.22	78	3.06	93	4.01
4	0.08	19	0.45	34	0.94	49	1.55	64	2.28	79	3.12	94	4.08
5	0.1	20	0.48	35	0.98	50	1.59	65	2.33	80	3.18	95	4.15
6	0.12	21	0.51	36	1.02	51	1.64	66	2.38	81	3.24	96	4.22
7	0.14	22	0.54	37	1.05	52	1.68	67	2.43	82	3.3	97	4.29
8	0.17	23	0.57	38	1.09	53	1.73	68	2.49	83	3.36	98	4.36
9	0.19	24	0.6	39	1.13	54	1.78	69	2.54	84	3.43	99	4.43
10	0.21	25	0.63	40	1.17	55	1.83	70	2.6	85	3.49	100	4.5
11	0.24	26	0.66	41	1.21	56	1.87	71	2.65	86	3.55		
12	0.26	27	0.7	42	1.25	57	1.92	72	2.71	87	3.62		
13	0.29	28	0.73	43	1.29	58	1.97	73	2.77	88	3.68		
14	0.31	29	0.76	44	1.33	59	2.02	74	2.82	89	3.75		

**Part B**

If your score is  $x$ , then your letter grade is

$$f(x) = \frac{(964 - x)x}{19200}$$

The median score for the exam is 64, which translates to a letter grade of 3.00 or B. The following table shows the letter grade for each possible score.

$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$	$x$	$f(x)$
0	0.	15	0.74	30	1.46	45	2.15	60	2.83	75	3.47	90	4.1
1	0.05	16	0.79	31	1.51	46	2.2	61	2.87	76	3.52	91	4.14
2	0.1	17	0.84	32	1.55	47	2.24	62	2.91	77	3.56	92	4.18
3	0.15	18	0.89	33	1.6	48	2.29	63	2.96	78	3.6	93	4.22
4	0.2	19	0.94	34	1.65	49	2.34	64	3.	79	3.64	94	4.26
5	0.25	20	0.98	35	1.69	50	2.38	65	3.04	80	3.68	95	4.3
6	0.3	21	1.03	36	1.74	51	2.43	66	3.09	81	3.73	96	4.34
7	0.35	22	1.08	37	1.79	52	2.47	67	3.13	82	3.77	97	4.38
8	0.4	23	1.13	38	1.83	53	2.51	68	3.17	83	3.81	98	4.42
9	0.45	24	1.18	39	1.88	54	2.56	69	3.22	84	3.85	99	4.46
10	0.5	25	1.22	40	1.93	55	2.6	70	3.26	85	3.89	100	4.5
11	0.55	26	1.27	41	1.97	56	2.65	71	3.3	86	3.93		
12	0.6	27	1.32	42	2.02	57	2.69	72	3.35	87	3.97		
13	0.64	28	1.37	43	2.06	58	2.74	73	3.39	88	4.02		
14	0.69	29	1.41	44	2.11	59	2.78	74	3.43	89	4.06		