Stat 104	40	
Ouiz 3,	Fall	2014

Name	
Recitation Instructor	

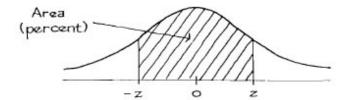
l. a)	Find the area	between	-1.5	and	1	under the	normal	curve.	(2 p)	oints)
-------	---------------	---------	------	-----	---	-----------	--------	--------	-------	-------	---

b) Find the area to the right of 1.75 under the normal curve. (2 points)

- 2. The senior students in a large California school district averaged 545 with an SD of 100 on the math portion of the SAT. The scores follow the normal curve.
 - a) Find the percentage of these students who scored between 600 and 800. (3 points)

b) What test score represents the 75-th percentile? (3 points)

A NORMAL TABLE



0.00 0 1.50 86.64 3.00 99.730 0.05 3.99 1.55 87.89 3.05 99.771 0.10 7.97 1.60 89.04 3.10 99.806 0.15 11.92 1.65 90.11 3.15 99.837 0.20 15.85 1.70 91.09 3.25 99.863 0.25 19.74 1.75 91.99 3.25 99.885 0.30 23.58 1.80 92.81 3.30 99.903 0.35 27.37 1.85 93.57 3.35 99.919 0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.978 0.75	z	Area	Z	Area	z	Area	
0.10 7.97 1.60 89.04 3.10 99.806 0.15 11.92 1.65 90.11 3.15 99.837 0.20 15.85 1.70 91.09 3.20 99.863 0.25 19.74 1.75 91.99 3.25 99.885 0.30 23.58 1.80 92.81 3.30 99.903 0.35 27.37 1.85 93.57 3.35 99.919 0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.988 0.85	0.00	0	1.50	86.64	3.00	99.730	
0.15 11.92 1.65 90.11 3.15 99.837 0.20 15.85 1.70 91.09 3.20 99.863 0.25 19.74 1.75 91.99 3.25 99.885 0.30 23.58 1.80 92.81 3.30 99.903 0.35 27.37 1.85 93.57 3.35 99.919 0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.988 0.85	0.05	3.99	1.55	87.89	3.05		
0.20 15.85 1.70 91.09 3.20 99.863 0.25 19.74 1.75 91.99 3.25 99.885 0.30 23.58 1.80 92.81 3.30 99.903 0.35 27.37 1.85 93.57 3.35 99.919 0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.988 0.90 63.19 2.40 98.36 3.90 99.999 1.00	0.10	7.97	1.60	89.04	3.10	99.806	
0.25 19.74 1.75 91.99 3.25 99.885 0.30 23.58 1.80 92.81 3.30 99.903 0.35 27.37 1.85 93.57 3.35 99.919 0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.988 0.90 63.19 2.40 98.36 3.90 99.999 1.00 68.27 2.50 98.76 4.00 99.993 1.05	0.15	11.92	1.65	90.11	3.15	99.837	
0.30 23.58 1.80 92.81 3.30 99.903 0.35 27.37 1.85 93.57 3.35 99.919 0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.988 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.999 1.00 68.27 2.50 98.76 4.00 99.993 1.05	0.20	15.85	1.70	91.09	3.20	99.863	
0.35 27.37 1.85 93.57 3.35 99.919 0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.988 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.999 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10	0.25	19.74	1.75	91.99	3.25	99.885	
0.40 31.08 1.90 94.26 3.40 99.933 0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.988 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.999 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.20	0.30	23.58	1.80	92.81	3.30	99.903	
0.45 34.73 1.95 94.88 3.45 99.944 0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.982 0.85 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.65 99.20 4.15 99.9959 1.20 76.99 2.70 99.31 4.20 99.9973 1.25	0.35	27.37	1.85	93.57	3.35	99.919	
0.50 38.29 2.00 95.45 3.50 99.953 0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.982 0.80 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.997 1.25 78.87 2.75 99.40 4.25 99.9979 1.30	0.40	31.08	1.90	94.26	3.40	99.933	
0.55 41.77 2.05 95.96 3.55 99.961 0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.999 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 <td>0.45</td> <td>34.73</td> <td>1.95</td> <td>94.88</td> <td>3.45</td> <td>99.944</td>	0.45	34.73	1.95	94.88	3.45	99.944	
0.60 45.15 2.10 96.43 3.60 99.968 0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 <td>0.50</td> <td>38.29</td> <td>2.00</td> <td>95.45</td> <td>3.50</td> <td>99.953</td>	0.50	38.29	2.00	95.45	3.50	99.953	
0.65 48.43 2.15 96.84 3.65 99.974 0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.9999 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9988 1.35<	0.55	41.77	2.05	95.96	3.55	99.961	
0.70 51.61 2.20 97.22 3.70 99.978 0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9989 1.40<	0.60	45.15	2.10	96.43	3.60	99.968	
0.75 54.67 2.25 97.56 3.75 99.982 0.80 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9989 1.40 83.85 2.90 99.63 4.40 99.9989	0.65	48.43	2.15	96.84	3.65	99.974	
0.80 57.63 2.30 97.86 3.80 99.986 0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9989 1.40 83.85 2.90 99.63 4.40 99.9989	0.70	51.61	2.20	97.22	3.70	99.978	
0.85 60.47 2.35 98.12 3.85 99.988 0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	0.75	54.67	2.25	97.56	3.75	99.982	
0.90 63.19 2.40 98.36 3.90 99.990 0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9989 1.40 83.85 2.90 99.63 4.40 99.9989	0.80	57.63	2.30	97.86	3.80	99.986	
0.95 65.79 2.45 98.57 3.95 99.992 1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9989 1.40 83.85 2.90 99.63 4.40 99.9989	0.85	60.47	2.35	98.12	3.85	99.988	
1.00 68.27 2.50 98.76 4.00 99.9937 1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	0.90	63.19	2.40	98.36	3.90	99.990	
1.05 70.63 2.55 98.92 4.05 99.9949 1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	0.95	65.79	2.45	98.57	3.95	99.992	
1.10 72.87 2.60 99.07 4.10 99.9959 1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	1.00	68.27	2.50	98.76	4.00	99.9937	
1.15 74.99 2.65 99.20 4.15 99.9967 1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	1.05	70.63	2.55	98.92	4.05	99.9949	
1.20 76.99 2.70 99.31 4.20 99.9973 1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	1.10	72.87	2.60	99.07	4.10	99.9959	
1.25 78.87 2.75 99.40 4.25 99.9979 1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	1.15	74.99	2.65	99.20	4.15	99.9967	
1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	1.20	76.99	2.70	99.31	4.20	99.9973	
1.30 80.64 2.80 99.49 4.30 99.9983 1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989	1.25	78.87	2.75	99.40	4.25	99.9979	
1.35 82.30 2.85 99.56 4.35 99.9986 1.40 83.85 2.90 99.63 4.40 99.9989		80.64		99.49		99.9983	
1.40 83.85 2.90 99.63 4.40 99.9989	1.35	82.30	2.85	99.56			
1.45 85.29 2.95 99.68 4.45 99.9991	1.40	83.85	2.90		4.40	99.9989	
	1.45	85.29	2.95	99.68	4.45	99.9991	